

GW01666

DOH # 170015-05

JUN 16 1975

FORM 9-1642 (1-68)

Well No. D58

E log 29

4. detail for punching 9/76

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD

Record by WTO

Source of data USGS-Tenn

Date 2-3-75

Map Olive Branch

State MS

County (or town) De Soto

17

Latitude: 34° 58' 34" N

Longitude: 089° 51' 29" W

Sequential number: 1

Lat-long accuracy: 2° 1' 6"

Local well number: D058

Other number: Well # 1 (over)

Local use: 009029

Owner or name: EAST OVER SUB

Owner or name: OLIVE BRANCH

Address: Olive Branch

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist N

Use of Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec, water: SB

Stock, Inscrit, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other PU

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed. WU

DATA AVAILABLE: Well data Freq. W/L meas.: Field aquifer char.

Hyd. lab. data:

Qual. water data; type:

Freq. sampling: Pumpage inventory: no. period:

Pressure cards: SPRT

Log data: 0-558'

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD

Depth well: 476 ft Meas. rept accuracy 3

Depth cased: 416 ft Casing type: 12 in Diam. 26

Finish: porous gravel w. gravel w. horiz. open perf., screen, sd. pt., shored, open hole, other S

Method: air bored, cable, dug, hyd jetted, air reverse trenching, driven, drive rot, percussive, rotary, other H

Date Drilled: 1-23-75 975 Pump intake setting: 30 ft

Driller: Carlson address 390 386

Lift (type): air, bucket, cent, jet, multiple, multiple, none, piston, rot, submerg, turb, other T Deep Shallow

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 40 Trans. or meter no. 390 386

Descrip. MP 390 386 ft above below LSD, Alt. MP

Alt. LSD: 400 Accuracy: Eng 3

Water Level 140. ft above below MP; Ft below LSD 144 Accuracy: D

Date meas: 276 Yield: 500 gpm Method determined

Drawdown: 276 ft Accuracy: 500 Pumping period 500 hrs

QUALITY OF WATER DATA: Iron 0 Sulfate 0 Chloride 0 Hard. 0

Sp. Conduct 0 K x 10 0 Temp. 0 Date sampled 0

Taste, color, etc. 0

*11/16/88
WL=200
4723
152-77
152-51*

Well No. _____

Latitude-longitude _____
N
S
d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: 03 Section: _____

Drainage Basin: D Subbasin: _____

Topo of well site: (D) (C) (E) (P) (H) (R) (L) (S) (T) (U) (V) _____
depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat

MAJOR AQUIFER: system _____ series TE aquifer, formation, group TA

Lithology: _____ Origin: _____ Aquifer Thickness: _____ ft

Length of well open to: _____ ft 60 Depth to top of: _____ ft 390

MINOR AQUIFER: system _____ series _____ aquifer, formation, group _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____ ft

Length of well open to: _____ ft _____ Depth to top of: _____ ft _____

Intervals Screened:

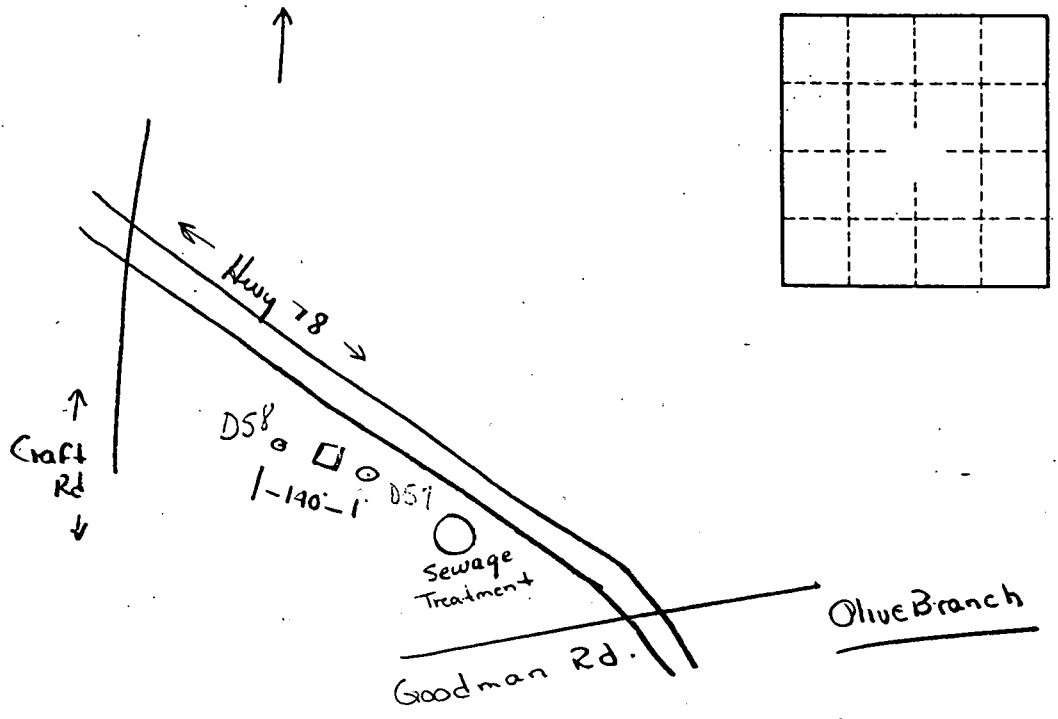
Depth to consolidated rock: _____ ft _____ Source of data: _____

Depth to basement: _____ ft _____ Source of data: _____

Surficial material: _____ Infiltration characteristics: _____

Coefficient Trans: _____ gpd/ft _____ Coefficient Storage: _____

Coefficient Perm: _____ gpd/ft²; Spec cap: _____ gpm/ft; Number of geologic cards: _____



Well No. _____

Desoto
D58
2176
Elev 2829

GW
01666

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

CODED

390 - 550'

WATER WELL DRILLERS LOG

FEB 76 CARLOSS WELL SUPPLY DESOTA
date well completed firm name county well located

| LANDOWNER: | description of formations encountered | from | to |
|---|---------------------------------------|------|-----|
| Wortman & Mann | | | |
| Memphis, Tennessee (mailing address) | Top soil & Clay | 0 | 18 |
| | Coarse red gravel | 18 | 80 |
| | Clay & Lignite | 80 | 165 |
| | Sand-Medium | 165 | 230 |
| | Med-coarse sand | 230 | 275 |
| | Med-coarse sand | 275 | 400 |
| | Coarse sand | 400 | 485 |
| | Sand-Lignite-Clay | 485 | 558 |

WELL LOCATION:
sec. 33 T. 1 S. R. 6 W.
1 miles W of Olive Br
(distance) (direction) (nearest town)

WELL PURPOSE: Municipal
(home, irrigation, municipal, industrial)

- WELL COMPLETION DATA:
- (1) diameter (inches) 17 1/2"
 - (2) total depth (feet) 479
 - (3) static water level (feet) 144 below top of ground.
 - (4) casing Steel, 415 (material), (depth)
 - 2" 12" (size) if telescope see back.
 - (5) screen 60' (length), 416' (depth to top)
 - 6" Stainless steel (size), (material)
 - (6) pump 40 (HP), 500 (yield gpm)
 - Electric (type power)
 - (7) electric log YES (yes or no)
 - USGS (MEMPHIS BRANCH) (organization running log)
 - (8) how well bottom plugged Back Pressure Valve

CODE

RECEIVED
SEP 10 1976

MISS. BD. OF WATER COMM

DRILLERS REMARKS:

RECEIVED

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

AUG 23 1995

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-0520

This box is for office use only. 10-10-95 AGN

Environmental Quality Office of Land & Water Resources FORM OL-WR-AP-2 (REV. 9/94)

Table with 4 columns: Issued, Expires, Fee Paid, Permit No.; Lat, Long, Elev, USGS No.; Quad, ASCS Farm No, STAC, MSDOH No.; Aquifer, Tract No, Basin No.; Remarks, Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): NEW PERMIT RENEWAL - PERMIT NO. MS-GW-01666

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: SIB

SECTION A (to be completed by ALL APPLICANTS)

LANDOWNER: CITY OF OLIVE BRANCH 64-6001544 (Name) (SSN or Tax ID No.) 9189 PIGEON ROOST AVE (Address) OLIVE BRANCH MISS 38654 (601) 895-3166 (City) (State & Zip) (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner): SAME (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): SW 1/4 of the NW 1/4 of Section 29, Township 1S, Range 6W, 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)

1. AQUIFER: MEMPHIS MISSISSIPPI DEPARTMENT OF HEALTH NO.: 2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____. If well has already been drilled, when was well completed (date)? Feb _____, 19 76. Under whose name was well originally drilled (if known)? city of olive branch 3. Description of proposed or completed well: (a) DEPTH OF WELL: 400 feet. DRILLER: Carlross Well Co., Memphis, TN. (b) SURFACE CASING: Length _____ feet; Diameter 12 inches; Type Steel (c) SCREEN: Length 60 feet; Diameter 6 inches; Type Stainless Steel (d) PUMP: Type _____; Size _____; Capacity 500 gallons per minute; Setting depth _____ feet (e) POWER UNIT: Type ELEC; Size 25 horsepower 4. PERMITTED VOLUME: (a) _____ acre-feet per year at a maximum rate of _____ gallons per minute (b) 0.500 0.0 million gallons per day at a maximum rate of 500 gallons per minute

0.0 (CONTINUED ON BACK) 500

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 0 or (b) The number of connections is 0

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>.180</u> | <u>2000</u> | <u>.180</u> | <u>2005</u> | <u>.180</u> | <u>2010</u> | <u>.180</u> | <u>2015</u> |
| (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: THIS WELL IS NOT IN USE AT THIS TIME.

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

JOSEPH F. LAUDERDALE P.E.

(Name)

9123 Pigeon Roost

(Address)

OLIVE BRANCH, MISS. 38654

(City, State, Zip)

601-895-0422

(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. F. Lauderdale
(Signature)

Subscribed and sworn to before me this 14th day of August, 1995, at Olive Branch City of Mississippi County of De Soto

My commission expires My Commission Expires April 13 1998 Jayce Harris Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

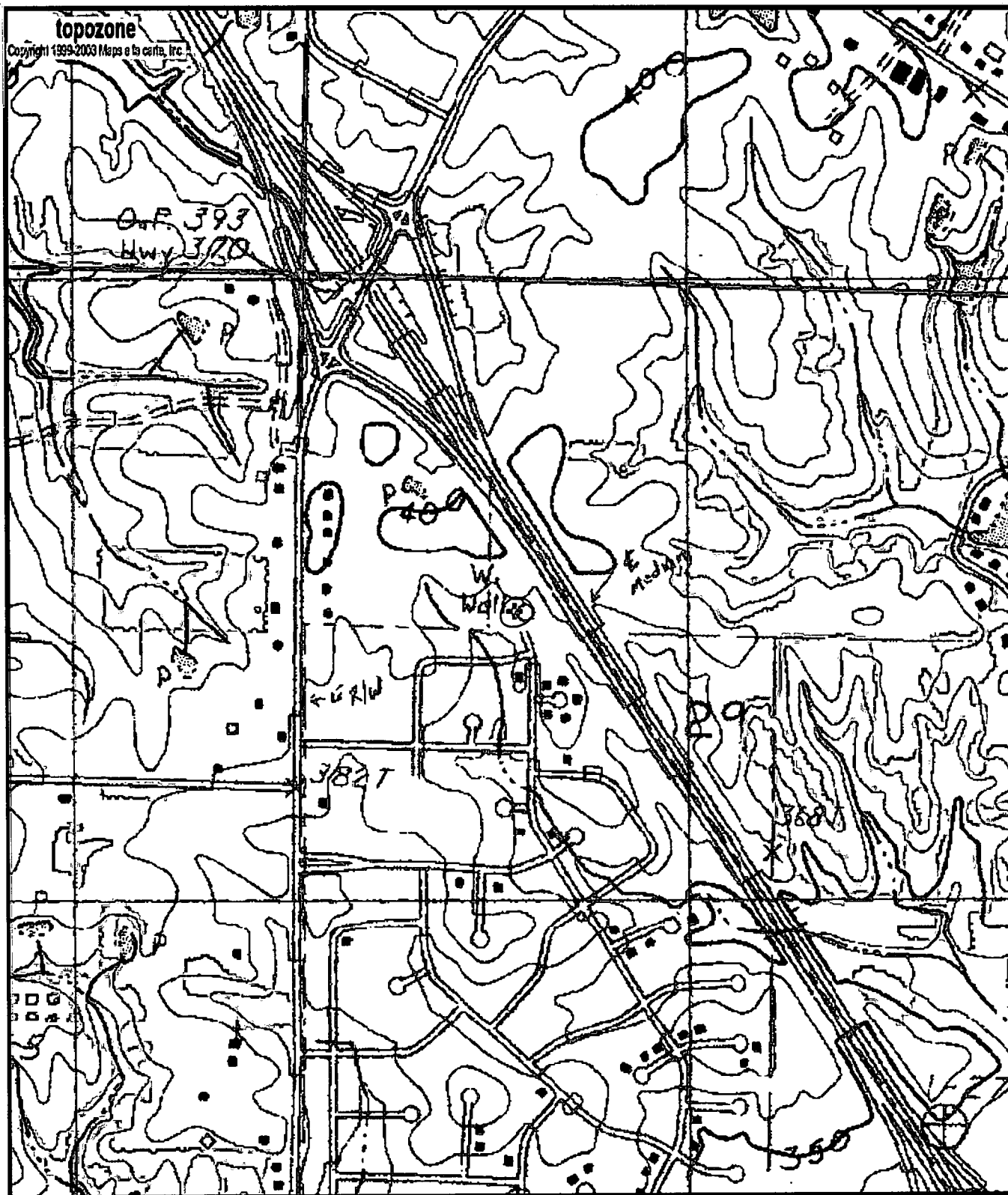
GPS LOG

USER NAME(S): LAR/DAS DATE: 7-24-94
UNIT DEQ #: 84090 FILE #: 8072719A
HEALTH DEPT. #: 170015-05 ELEV. 380
USGS #: D58 OLWR #: GW1666
OWNER: CITY OLIVE BRANCH EAST OUEL
LOCATION: NE/SW/NW S 29 T 15 R 6W COUNTY: DESOTO
LOCATION DESCRIPTION: NE CORNER OF PLANT YARD

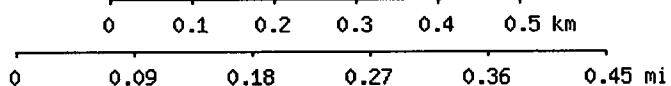
CASING DIA: 12" PUMP TYPE & SIZE: TURBANE. 40 HP
GPS FIELD LOCATION: LAT. 34.583134 LONG. 89.51119W
GPS CORRECTED LOCATION: LAT. 34.58182 LONG. 89.51422

REMARKS: _____

THIS WELL IS PUMPING
MUD. NOT IN SERVICE



0170015-05
 6W01666
 D58



Map center is 34° 58' 20"N, 89° 51' 43"W (WGS84/NAD83)
Olive Branch quadrangle
 Projection is UTM Zone 16 NAD83 Datum

M=-0.124
 G=-1.642