

FORM 9-1642 (1-68)

Well No. D 22 **PUNCHED**

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

DEC 10 1974

MASTER CARD

Record by B. D. Source of data Bowc Date 9-71 Map \_\_\_\_\_

State 78 County Duval (or town) \_\_\_\_\_

Latitude: 34° 59' 10" N Longitude: 08° 45' 13" W Sequential number: 1

Lat-long accuracy: 3 T. 1 S. R. 6 E. Sec. 20 SW. NE. NW. \_\_\_\_\_

Local well number: D 0 2 2 B P 2 0 0 1 5 0 6 W Other number: \_\_\_\_\_

Local use: 064 Owner or name: City of Olive Branch

Owner or name: MINERAL WELLS Address: Mineral Wells W.A.

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

DEC 10 1974  
MT

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

Stock, Inatit, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other SB

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

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

Hyd. lab. data: \_\_\_\_\_

Qual. water data; type: \_\_\_\_\_

Freq. sampling: \_\_\_\_\_ Pumpage inventory:  yes, no, period: \_\_\_\_\_

Aperture cards: \_\_\_\_\_

Log data: SPRT

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 272 ft Meas. rept accuracy 3

Depth cased: (first perf.) 237 ft Casing type: \_\_\_\_\_; Diam. 8 X 6 in 3

Finish: porous concrete, gravel w. (perf.), gravel w. (screen), horiz. gallery, open end, perf., screen, sd. pt., shored, open hole, other 3

Method Drilled: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd rot., (J) jetted, (P) air percussion, (R) reverse, (T) rotary, (V) trenching, (W) driven wash, (X) other W

Date Drilled: 9.6.5 Pump intake setting: \_\_\_\_\_ ft

Driller: Source-Cen address \_\_\_\_\_

Lift (type): (A) air, (B) bucket, (C) cent, (J) jet, (L) multiple, (M) multiple, (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, other 7 Deep  Shallow

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

Descrip. MP 340 ft above LSD, Alt. MP \_\_\_\_\_

Alt. LSD: 360 Accuracy: (source) 3

Water Level 90 ft above below MP; Ft. below LSD 70 Accuracy: \_\_\_\_\_

Date meas: 9.6.5 Yield: 250 gpm Method determined 1

Drawdown: \_\_\_\_\_ ft Accuracy: \_\_\_\_\_ Pumping period \_\_\_\_\_ hrs

QUALITY OF WATER DATA: Iron \_\_\_\_\_ Sulfate \_\_\_\_\_ Chloride \_\_\_\_\_ Hard. \_\_\_\_\_

Sp. Conduct \_\_\_\_\_ K x 10<sup>6</sup> Temp. \_\_\_\_\_ \*F Date sampled \_\_\_\_\_

Taste, color, etc. \_\_\_\_\_

WELL NO.

022

TRANSMITTED FOR ADP

Well No. D22

Latitude-longitude \_\_\_\_\_ N \_\_\_\_\_ S \_\_\_\_\_ d \_\_\_\_\_ m \_\_\_\_\_ s

**HYDROGEOLOGIC CARD**

**SAME AS ON MASTER CARD** Province: 03 Section: \_\_\_\_\_

Drainage Basin: D Subbasin: 16R

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

MAJOR AQUIFER: system \_\_\_\_\_ series TE aquifer, formation, group 5S

Lithology: US Origin: 2 Aquifer Thickness: 67 ft

Length of well open to: \_\_\_\_\_ ft Depth to top of: 205 ft

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: 6"

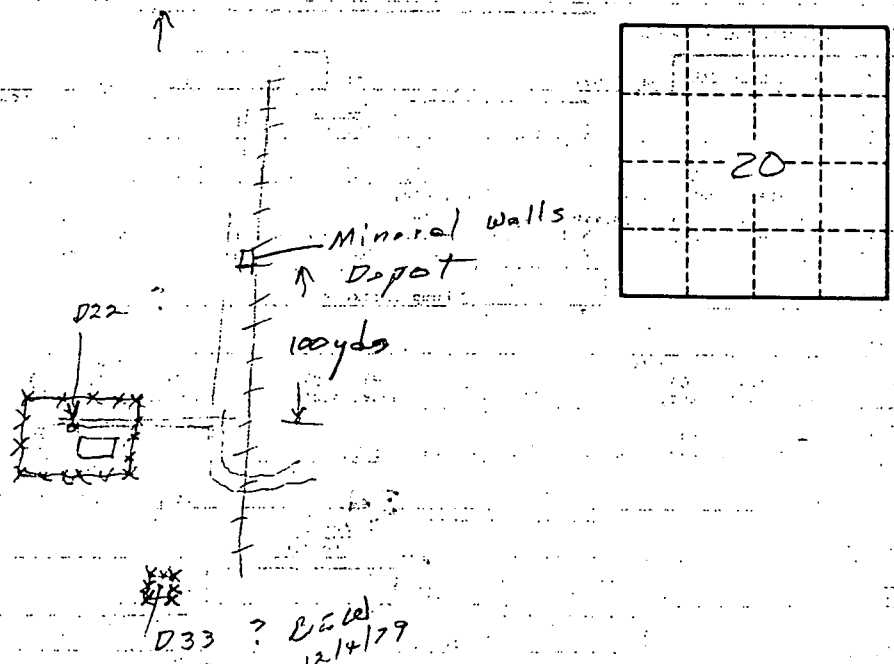
Depth to consolidated rock: \_\_\_\_\_ ft Source of data: \_\_\_\_\_

Depth to basement: \_\_\_\_\_ ft Source of data: \_\_\_\_\_

Surficial material: \_\_\_\_\_ Infiltration characteristics: \_\_\_\_\_

Coefficient Trans: \_\_\_\_\_ gpd/ft Coefficient Storage: \_\_\_\_\_

Coefficient Perm: \_\_\_\_\_ gpd/ft<sup>2</sup>; Spec cap: \_\_\_\_\_ gpm/ft; Number of geologic cards: \_\_\_\_\_



**WATER WELL DRILLERS LOG CODED**

Date: 9-1-, 1965, Driller: Layne-Central Co. County Desoto

(Name)

Town of	Description & Color of Materials Sand, Clay, Red Clay, Shell, etc.	Thick- ness Feet	Depth Feet
(1) Owner of Land: <u>Mineral Wells</u> (Name)	clay	15	
<u>Mineral Wells, Mississippi</u> (Address)	fine gravel sand	10	25
(2) Location: <u>1/4</u> , <u>1/4</u> , Sec. <u>1</u> T. <u>1</u> R. <u>1</u>	tough white clay		90
<u>          </u> miles <u>          </u> of <u>          </u> (distance) (direction) (Nearest Town)	sandy clay		161
(3) Topography: <u>          </u> (Hilly) (Flat) (Level)	soft sandy clay	20	181
(4) Purpose of Well: <u>Municipal</u> (Domestic Irrigation Municipal, Industrial, Other)	soft sandy clay	24	205
	soft muddy sand	22	227
	soft muddy sand	13	240
	pk sand	7	247
	pk sand	3	250
	pk sand	22	272

Information upon completion of well:

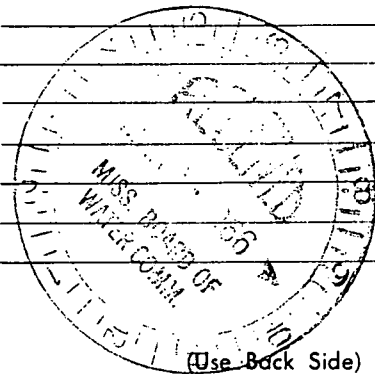
- (1) Diameter 8" inches.
- (2) Total Depth 279 feet.
- (3) Water Level 90 feet below top of ground.
- (4) Cased to 237', Size 8"
- (5) Screen: Size 6", Length 35' 7"
- (6) Were any formations sealed against pollution?  
X yes,            no.

If YES depth of formation 237'

Why required

Drillers Remarks:           

**CODED**



(Use Back Side)

Well No.

Mail this copy to Board of Water Commissioners 429 Miss. St. Jackson, Miss

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

Pigeon Roost  
NOV 27 1995

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES  
P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-5206

This box is for office use only. 7-23-96 AGN. FORM OLWR-AP-2 (REV. 9/94)

Issued: <u>5-27-86</u>	Expires: <u>5-27-2006</u>	Fee Paid:	Permit No.
Lat. <u>34-59-21</u>	Long. <u>89-51-37</u>	Elev. <u>340</u>	USGS No.
Quad <u>Olive Branch</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-2509

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 OLIVE BRANCH 64-6001544  
(Name) (SSN or Tax ID No.)  
9189 PIGEON ROOST  
(Address)  
OLIVE BRANCH, MS. 38654-2499 (601) 895 - 4000  
(City) (State & Zip) (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner):  
MAP SENT  
(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):  
N E 1/4 of the N W 1/4 of Section 20, Township 01S, Range 06W, 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. 1 OTHER CITY WELL

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

- AQUIFER: SPARTA MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170013
- Proposed work will begin on \_\_\_\_\_, 19\_\_\_\_, and will be completed by \_\_\_\_\_, 19\_\_\_\_.  
If well has already been drilled, when was well completed (date)? SEPT 1, 19 65. Under whose name was well originally drilled (if known)? MINERAL WELLS WATER ASSOCIATION
- Description of proposed or completed well:
  - DEPTH OF WELL: 279 feet. DRILLER: LAYNE CENTRAL
  - SURFACE CASING: Length 243 feet; Diameter 12 inches; Type STEEL
  - SCREEN: Length 36 feet; Diameter 6 inches; Type STAINLESS STEEL
  - PUMP: Type SUBMERSIBLE; Size 20 HP; Capacity 250 gallons per minute; Setting depth 140 feet.
  - POWER UNIT: Type AC; Size \_\_\_\_\_ horsepower
- PERMITTED VOLUME:
  - 0.07 million gallons per year at a maximum rate of \_\_\_\_\_ gallons per minute
  - 0.07 million gallons per day at a maximum rate of 250 gallons per minute

(CONTINUED ON BACK)

250

**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. Discription 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 Sorgum \_\_\_\_\_;  
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 550

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>20,000</u>	<u>1996</u>	<u>25,000</u>	<u>2001</u>	<u>30,000</u>	<u>2006</u>	<u>35,000</u>	<u>2011</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:** \_\_\_\_\_

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

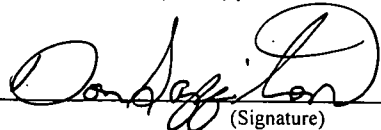
DON SAPPINGTON  
(Name)

9189 PIGEON ROOST  
(Address)

OLIVE BRANCH, MS. 38654-2499  
(City, State, Zip)

601-895-4000  
(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.

  
(Signature)

Subscribed and sworn to before me this 6<sup>th</sup> day of November, 1995, at Olive Branch County of DeSoto

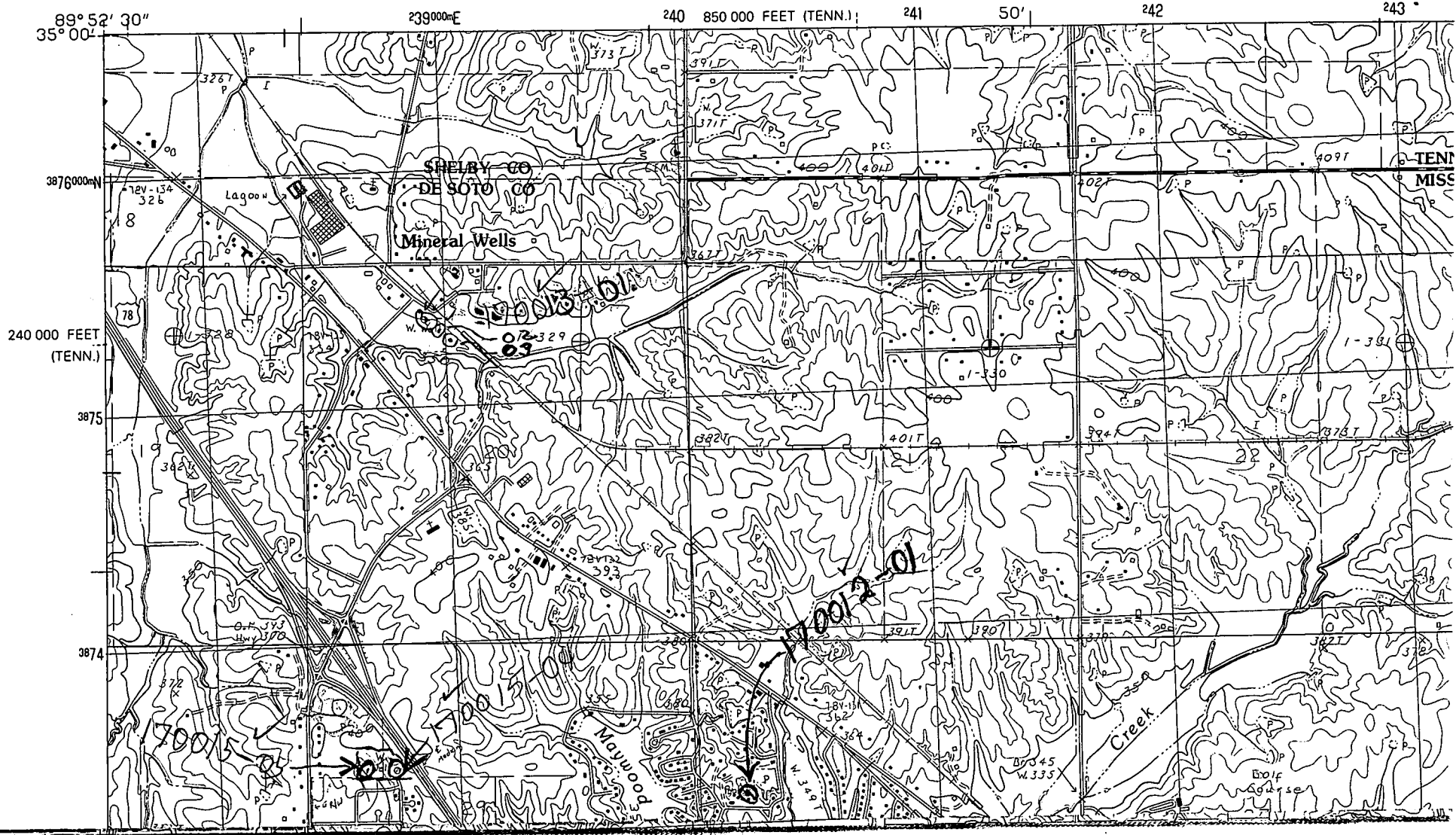
My commission expires My Commission Expires April 13, 1996; Syble Barry Notary Public.

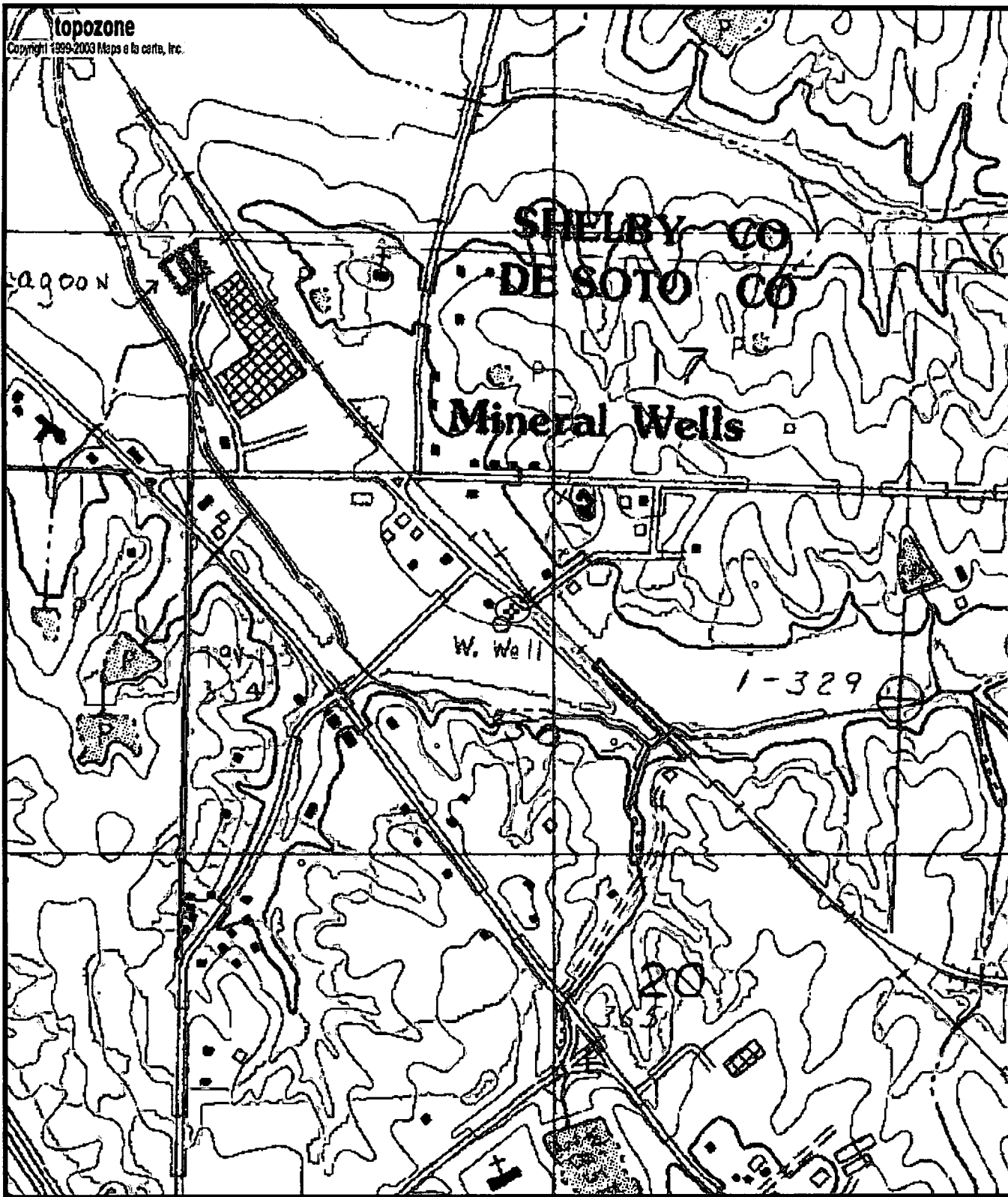
DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

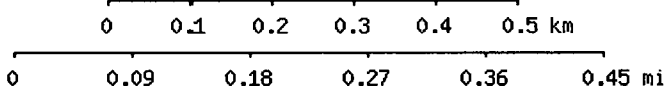
SHD+PEG 7-24-96  
USER NAME(S): ~~LAR/DRS~~ DATE: ~~7/21/94~~  
UNIT DEQ #: 84090 FILE #: ~~807-160~~  
HEALTH DEPT. #: 170013-01 ELEV. 330  
USGS #: 471 D-22 OLWR #: MS-GW-02-09  
OWNER: MINERAL WELLS  
LOCATION: SW/NE/NW S 20 T 15 R 6W COUNTY: DE SOLO  
Olive Branch Quad.  
LOCATION DESCRIPTION: SOUTH of WHITE House 150 West of  
R&R TRACK.  
CASING DIA: 8" PUMP TYPE & SIZE: TURBINE / 20  
GPS FIELD LOCATION: LAT. ~~34-59-361 N~~ LONG. ~~89-51-622 W~~  
34° 59' 21.3" 89° 51' 31.3"  
GPS CORRECTED LOCATION: LAT. 34.98946641 LONG. 89.86030190  
REMARKS: WATER PLANT located 40' S. of white house,  
West side of Tracks 1/2 mi S. of <sup>state</sup> MINERAL  
Wells N. of Old Hwy 78. .4 miles from  
Tenn state line.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY





0170013-01  
 Gw02509  
 D22



Map center is 34° 59' 22"N, 89° 51' 37"W (WGS84/NAD83)  
**Olive Branch** quadrangle  
 Projection is UTM Zone 16 NAD83 Datum

