

Coded By 8/1/87 Q 790  
Checked By 8/2/87 17-91  
Entered By LSG  
Date 06-13-91  
U.S. GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
MISSISSIPPI DISTRICT

E-Log No. 47  
County DESOTO  
Agency

Well No. D67

WELL RECORD

Agency Code: U S G I S Site Id: 1345911708951140111 Project No.: 5111111111

Station Name: 12 DIOLIGI MINERAL WELLS W I A I I I Latitude: 934591171 Longitude: 1040819511401

Lat/Long Ac.: 11 S F T M Dist: 6-28 State: 7-28 County: SW SE Land Net: 13 NE NW S1201 T101 S R1016 W

Location Map: 14 OLIVE BRANCH Altitude: 16 338 Met/Meas: 17 A L N Accuracy: 18 1 15 Hydrologic Unit: 20 08103012014

Agency Use: 803 A I (9) Date Invented: 711 / / Station Type: J Data Type: 804

Instru.: 805 Remarks: 806 Relia.: 3 C L M (U) 2 W X

Date of Construction: 21 08/10/5 / 11/9/87 Well Use: 23 W Water Use: 24 P Primary Aquifer: 714 1124 SPRITI Hole Depth: 27 1520

Well Depth: 28 1501 Water Level: 30 Water Level Date: 31 / / Method: 34 Status: 37 Source: 33

CONSTRUCTION DATA  
Construction Date: 60 10/10/6 / 11/9/87 Contractor: 63 418 Name: Wilson Method: 65 H Finish: 66 G

CONSTRUCTION CASING DATA  
Top/Casing: 77 1101 Bot/Casing: 78 120101 Diameter: 79 1121  
Top/Casing: 77 1101 Bot/Casing: 78 120151 Diameter: 79 181

CONSTRUCTION OPENINGS DATA  
Top/Depth: 83 12015 Bot/Depth: 84 1250 Diameter: 87 18 Type: 85 S Length: 89 Width: 88  
Top/Depth: 83 Bot/Depth: 84 Diameter: 87 Type: 85 Length: 89 Width: 88

CONSTRUCTION LIFT DATA  
Lift Type: 43 S Date: 38 10/10/6 / 11/9/87 Intake: 44 1247  
Power: 45 E H.P.: 46 301 Serial No.: 49

MISCELLANEOUS OWNER DATA  
Date of Ownership: 159 10/10/6 / 11/9/87 Owner Name: 161 MINERAL WELLS W I A I I I

MISCELLANEOUS OTHER ID DATA  
E-Log No.: 190 0471 Assigner: 191 M I S S I S S I D I S T City of Olive Branch

MISCELLANEOUS QW DATA

R=192	T=A	738#1	Date of Measurement 1934     /     /         .	Aquifer Sampled 195#                 .	Temp 196#00010	Value 197#         .
R=192	T=A	738#2	Date of Measurement 1934     /     /         .	Aquifer Sampled 195#                 .	So Cond 196#00095	Value 197#         .
R=192	T=A	738#3	Date of Measurement 1934     /     /         .	Aquifer Sampled 195#                 .	pH 196#00400	Value 197#         .

MISCELLANEOUS LOGS DATA

R=198	T=A	739#1	Log Type 199#E	Beq. Depth 200#     110   .	End Depth 201#   520   .
R=198	T=A	739#1	Log Type 199#	Beq. Depth 200#           .	End Depth 201#           .

MISCELLANEOUS NETWORK DATA *106 = QW - WL - WD \**

R=114	T=A	730#1	Beq. Year 115#   9     .	End Year 116#   9     .	Agency Source 120=A   117#         .	Freq. 118#     .
R=121	T=A	730#2	Beq. Year 115#   9     .	End Year 116#   9     .	Agency Source 117#         .	Freq. 118#     .

MISCELLANEOUS REMARKS DATA

R=183	T=A	311#1	Date of Remarks 184#     /     /         .	Remarks 185#           .
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DISCHARGE DATA

R=146	T=A	Pump/Flow 147#1	Date 148# 08 / 05 / 1987	Type 703# P	Discharge 150#   150   0   .	So. Capacity 272#         .
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GEOHYDROLOGIC DATA

R=90	T=A	721#1	Depth Top 91#           .	Depth Bot. 92#   250   .	Unit Id 93#   24SPRT   .	304=P
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HYDRAULIC DATA

R=98	T=A	790#1	Unit Tested 100#           .	103#     .
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(Well # 3 S.E. of Plant)

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

**RECEIVED**  
MAR 24 1997

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES  
P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-5202

Dept. of Environmental Quality  
Office of Land & Water Resources  
FORM OLR-1-REV. 6/93

This box is for office use only. 10-28-97 AGN.

Issued: <u>8-25-97</u>	Expires: <u>10-28-2007</u>	Fee Paid: <u>X</u>	Permit No.
Lat. <u>34-59-18</u>	Long. <u>89-51-36</u>	Elev. <u>335</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-6W-07639

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 X 64-6001544  
(Name) (SSN or Tax ID No.)

9189 PIGEON ROOST AVE  
(Address)

OLIVE BRANCH, MS-38654 (601) 895-4131  
(City) (State & Zip) (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner):

SAME  
(Name) (SSN or Tax ID No.)

MAP SENT

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(City) (State & Zip) (Telephone)

Location of diversion/withdrawal point (A suitable map with location marked must accompany this application):  
NW 1/4 of the NW 1/4 of Section 20, Township 15, 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: SPARTA WILCOX (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)? JUNE 1, 1987. Under whose name was well originally drilled (if known)? MINERAL WELLS WATER ASSOCIATION

3. Description of proposed or completed well:  
(a) DEPTH OF WELL: 280 feet. DRILLER: Wilson Well Co.  
(b) SURFACE CASING: Length 240 feet; Diameter 12" inches; Type STEEL  
(c) SCREEN: Length 40 feet; Diameter 8 inches; Type STEEL  
(d) PUMP: Type SUBMERSIBLE; Size 1 25HP; Capacity 250 gallons per minute; Setting depth 220 feet  
(e) POWER UNIT: Type RAPIDAYTON; Size 25 horsepower

4. PERMITTED VOLUME :  
(a) \_\_\_\_\_ acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute  
(b) 0.222 million gallons per day at a maximum rate of 250 gallons per minute  
0.09 300

33 (CONTINUED ON BACK)  
9.17.97

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

- Source of water is from \_\_\_\_\_ which drains into \_\_\_\_\_  
which drains into \_\_\_\_\_  
(major stream or river)
- Description of pump/diversion works:  
Pump (size & type): \_\_\_\_\_ Power Unit (size & type): \_\_\_\_\_  
Lift: \_\_\_\_\_ feet Maximum capacity: \_\_\_\_\_ gallons per minute
- \_\_\_\_\_ 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)

- Name of storage reservoir: \_\_\_\_\_ Dam Height: \_\_\_\_\_ feet
- 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)**

- 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. \_\_\_\_\_
- FISH CULTURE:** Explain how water will be used: \_\_\_\_\_  
How often will reservoir (s) be emptied and refilled? \_\_\_\_\_
- MUNICIPAL, WATER ASSOCIATION, or PRIVATE WATER SYSTEM**  
Chose "a" or "b". (a) The number of people served is 1600 or (b) The number of connections is 515  
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>0.250M</u>	<u>2002</u>	<u>0.27M</u>	<u>2007</u>	<u>0.29M</u>	<u>2012</u>	<u>0.30M</u>	<u>2017</u>
(Volume)	(Year)	(Volume)	(Year)	(Volume)	(Year)	(Volume)	(Year)
- 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? \_\_\_\_\_
- RECREATION:** Explain how water will be used: \_\_\_\_\_
- OTHER USE:** Explain in detail (if needed, attach another page): \_\_\_\_\_
- REMARKS:** \_\_\_\_\_

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

Joseph F. Loucardale  
(Name)

9123 Pigeon Roost  
(Address)

OLIVE BRANCH, MS - 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.

[Signature]  
(Signature)

Subscribed and sworn to before me this 26<sup>th</sup> day of JCB, 19 97, at 11:00 PM County of DeSoto

My commission expires MY COMMISSION EXPIRES  
MAY 28, 2000; [Signature] Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

SHB + PEG  
USER NAME(S): LAR / DKB DATE: 17-24-94  
7/26/94  
UNIT DEQ #: 84090 FILE #: B072616A  
B072420A  
HEALTH DEPT. #: 170013-03 ELEV. 320  
USGS #: 473 D67 OLWR #: GW07639  
OWNER: MINERAL WELLS  
LOCATION: SE 1/4 NW 20 T 15 R 6W COUNTY: DESOTO  
Obive Branch Quad  
LOCATION DESCRIPTION: 300' SOUTH OF WATER PLANT IN  
FALCON AREA. 50' WEST OF R&R TRACKS.  
CASING DIA: 6" PUMP TYPE & SIZE: SUBMERGIBLE  
GPS FIELD LOCATION: LAT. 34.59296N LONG. 89.51532W  
34° 59' 17.4" 89° 51' 31.1"  
GPS CORRECTED LOCATION: LAT. 34.98832003 LONG. 89.85883807  
REMARKS: SEE WELL # 1 FOR WATER PLANT LOCATION

Tennessee

Tennessee

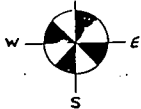
Mississippi

Mississippi

Well Location

RECEIVED

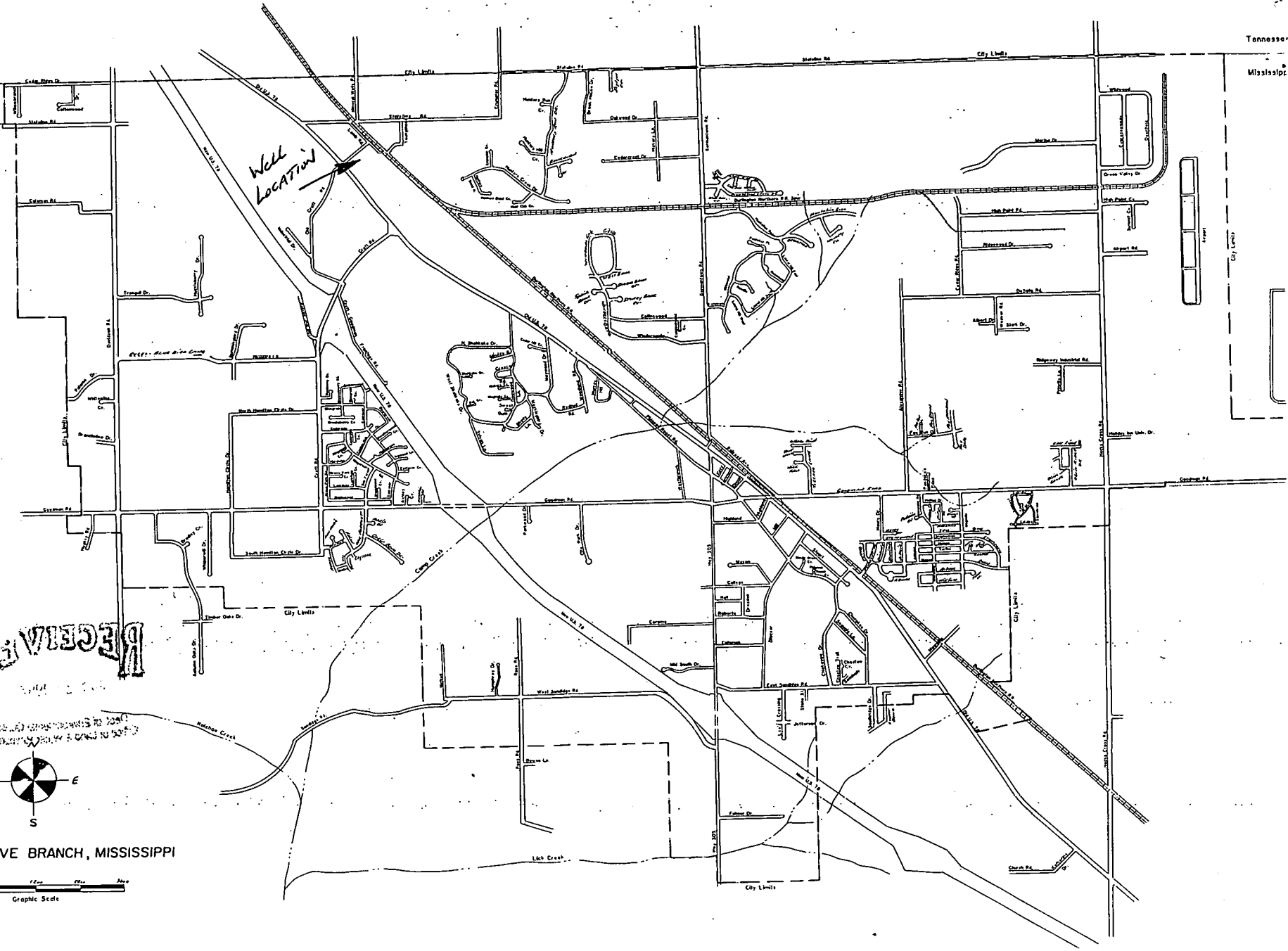
THIS DOCUMENT IS TO BE  
REPRODUCED BY ANY MEANS



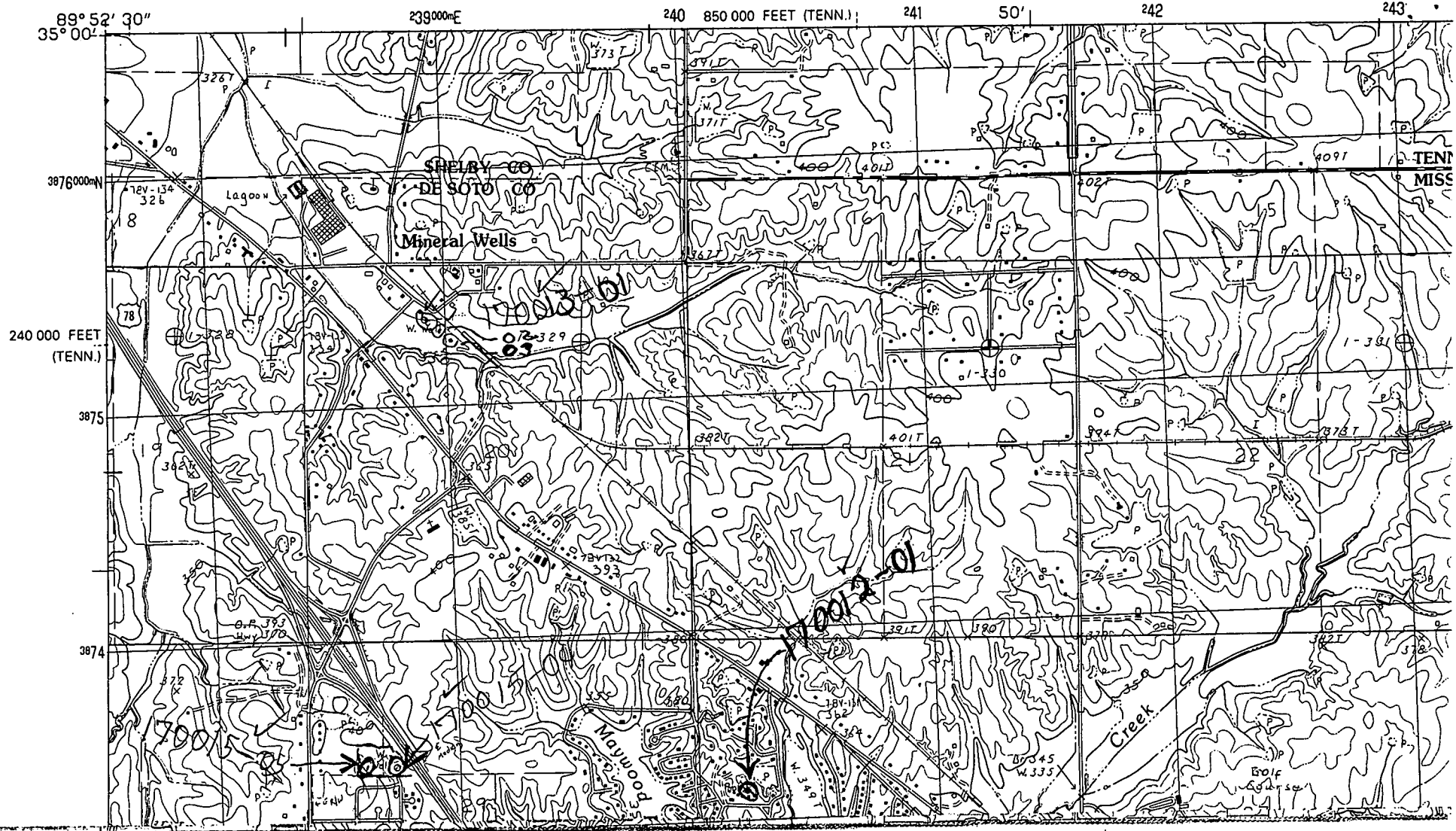
CITY OF OLIVE BRANCH, MISSISSIPPI

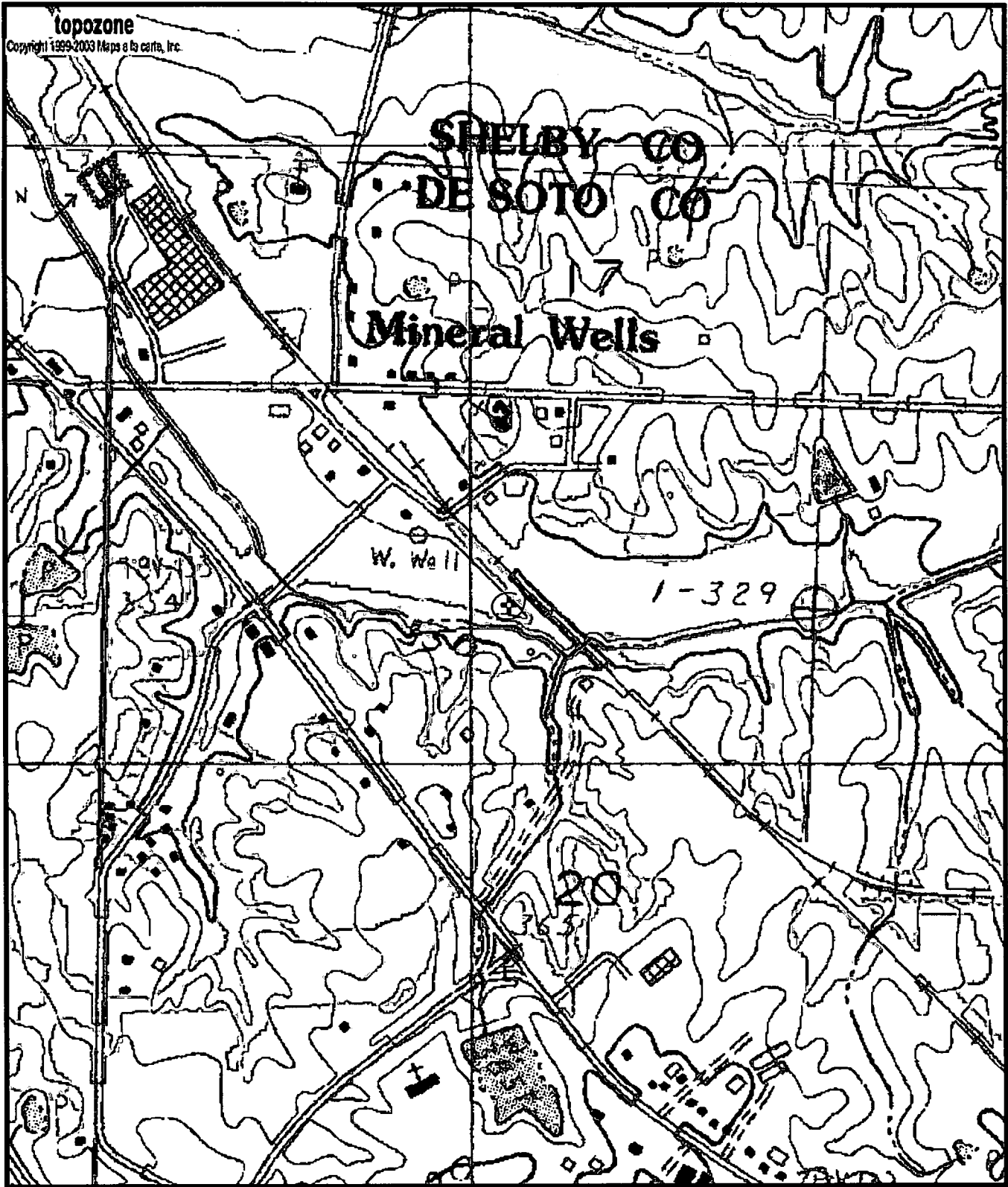


Graphic Scale

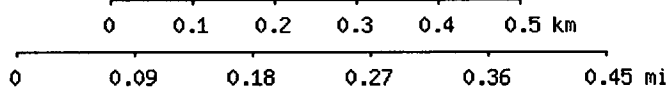


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY





0170013-03  
 Gw07369  
 D67



Map center is 34° 59' 18"N, 89° 51' 32"W (WGS84/NAD83)

**Olive Branch** quadrangle

Projection is UTM Zone 16 NAD83 Datum

M=-0.129  
 G=-1.641