

TRANSMITTED FOR ADP

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

PUNCHED

OLIVE BRANCH 308

MASTER CARD JAC Record by B.D.

Source of data BOWC Date 4-71

11/30/88

WL=144.71

H 34

10/31/89

139.65

State: ER County: De Witt Latitude: 345600 N Longitude: 0894730 Sequential number: 1

Local well number: H034CC0107506W Other number: B & M Local use: 069 Owner or name: City of Olive Branch

Owner or name: FAIRHAVEN WA Address: Olive Branch Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist

Use of water: (S) (T) (U) (V) (W) (X) (Y) (Z) Stock, Instit, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other SB

Use of well: (A) (D) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed

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

Hyd. lab. data:

Qual. water data; type:

Freq. sampling: Pumpage inventory: Aperture cards: SPRT

Log data:

WELL-DESCRIPTION CARD

Depth well: 286 Meas. Depth cased; (first perf.): 255 Casing type: 8

Finish: porous concrete, gravel w. (perf.), gravel w. (screen), horiz. gallery, open end, other

Method Drilled: air bored, cable, dug, hyd jetted, air percussion, reverse, rotary, trenching, driven, wash, other

Date Drilled: 769 Pump intake setting: ft

Driller: name address Lift (type): air, bucket, cent, jet, multiple, multiple, none, piston, rot, submerg, turb, other

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 10 Trans. or meter no. 12

Descr. MP 405 410 405 ft above below LSD, Alt. MP Alt. LSD: 400 Accuracy: 3

Water Level: ft above below MP; Ft below LSD 133 Accuracy: 4 Date meas: 774 Yield: @ 20 gpm 150 Method determined

Drawdown: ft Accuracy: Pumping period: hrs

QUALITY OF WATER DATA: Iron Sulfate Chloride Hard. Sp. Conduct K x 10 Temp. Date sampled

Taste, color, etc.

DEC 9 1971

Well No. 134

Well No. H34

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

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: \_\_\_\_\_ Section: 0.3

Drainage Basin: D Subbasin: 1.5.E

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (P) offshore, pediment, hillside, terrace, undulating, valley flat: \_\_\_\_\_

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

Lithology: US Origin: Z Aquifer Thickness: 61 ft

Length of well open to: \_\_\_\_\_ ft SI Depth to top of: \_\_\_\_\_ ft 229

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: \_\_\_\_\_

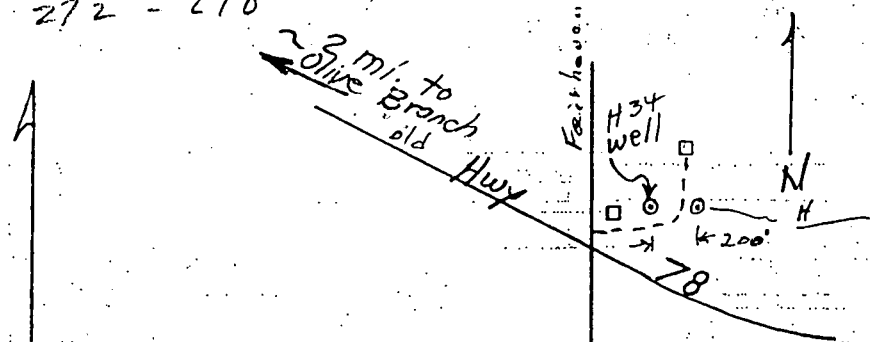
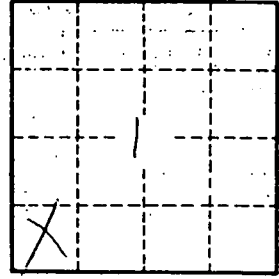
Coefficient Perm: \_\_\_\_\_ gpd/ft<sup>2</sup>; Spec cap: \_\_\_\_\_ gpm/ft; Number of geologic cards: \_\_\_\_\_

291.3 Deep

Cased 254 8" (6") 91

St. char.

229 - 248 Ph. sd  
248 - 272 "  
272 - 290 "



water level, 4-1964, by driller = 129' below lsd.

Desoto MISSISSIPPI BOARD OF WATER COMMISSIONERS

H34  
4-15-64

WATER WELL DRILLERS LOG

**CODED**

Date: 4-15-64, Driller: Layne-Central Co. County: DeSoto

(Name)

		Description & Color of Materials Sand, Clay, Red Clay, Shell, etc.	Thick- ness Feet	Depth Feet
(1) Owner of Land: Fairhaven Water Assn.	(Name)	clay	10	0
	Olive Branch, Mississippi	sand-gravel	44	10
	(Address)	clay	10	154
(2) Location: 1/4, 1/4, Sec. T R		sand-sts. clay	6	160
	miles, of	pk sand	17	177
(distance) (direction) (Nearest Town)		clay	3	180
(3) Topography:		sand and clay	23	203
(Hilly) (Flat) (Level)		sand and clay	23	226
(4) Purpose of Well: municipal		soft sts.	3	229
(Domestic Irrigation Municipal, Industrial, Other)		pk sand-soft sts.	19	248
		pk sand	24	272
		pk sand	18	290

Information upon completion of well:

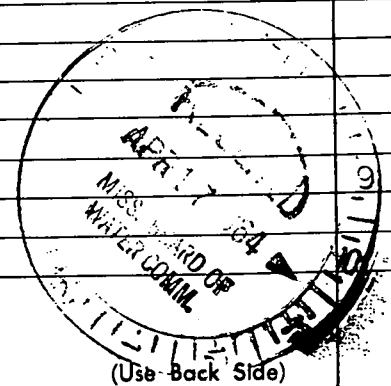
- (1) Diameter 8 inches.
- (2) Total Depth 291' 3" feet.
- (3) Water Level 129 feet below top of ground.
- (4) Cased to 254', Size 8"
- (5) Screen: Size 6", Length 9' 7"
- (6) Were any formations sealed against pollution?  
 yes,  no.

If YES depth of formation 254'

Why required

Drillers Remarks:

**CODED**



Well No.

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

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

**RECEIVED**

AUG 23 1995

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES

P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-5202

This box is for office use only.

10-10-95 AGN

Dept. of Environmental Quality  
Office of Land & Water Resources  
FORM OLEWAL-2 (REV. 7/95)

Issued: 2-25-86	Expires: 2-25-2006	Fee Paid:	Permit No.
Lat.	Long.	Elev.	USGS No.
Quad.	ASCS Farm No.	STAC.	MSDOI No.
Aquifer:	Tract No.		Basin No.
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): NEW PERMIT, RENEWAL - PERMIT NO. MS-6W-0173Z

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 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 SW 1/4 of Section 1, Township 2S, 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)

- AQUIFER: MEMPHIS SPARTA MISSISSIPPI DEPARTMENT OF HEALTH NO.: \_\_\_\_\_
- Proposed work will begin on \_\_\_\_\_, 19\_\_\_\_, and will be completed by \_\_\_\_\_, 19\_\_\_\_  
If well has already been drilled, when was well completed (date)? \_\_\_\_\_, 19 64. Under whose name was well originally drilled (if known)? FAIR HAVEN WATER ASSOCIATION
- Description of proposed or completed well:
  - DEPTH OF WELL: 291 feet. DRILLER: \_\_\_\_\_
  - SURFACE CASING: Length \_\_\_\_\_ feet; Diameter 8 inches; Type \_\_\_\_\_
  - SCREEN: Length \_\_\_\_\_ feet; Diameter 6 inches; Type \_\_\_\_\_
  - PUMP: Type \_\_\_\_\_; Size \_\_\_\_\_; Capacity \_\_\_\_\_ gallons per minute; Setting depth \_\_\_\_\_ feet
  - POWER UNIT: Type ELECTRIC; Size 15 horsepower
- PERMITTED VOLUME:
  - \_\_\_\_\_ acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute
  - 0.02 .03 million gallons per day at a maximum rate of 150 gallons per minute

(CONTINUED ON BACK)

150

**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  
\_\_\_\_\_ 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 400 or (b) The number of connections is 100  
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>0.045</u>	<u>2000</u>	<u>0.045</u>	<u>2005</u>	<u>0.045</u>	<u>2010</u>	<u>0.045</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 WILL ALTERNATE WITH A NEW 500 GPM WELL  
TO BE CONSTRUCTED AT FAIR HAVEN PLANT NOW OWNED BY CITY OF OLIVE  
BRANCH

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.

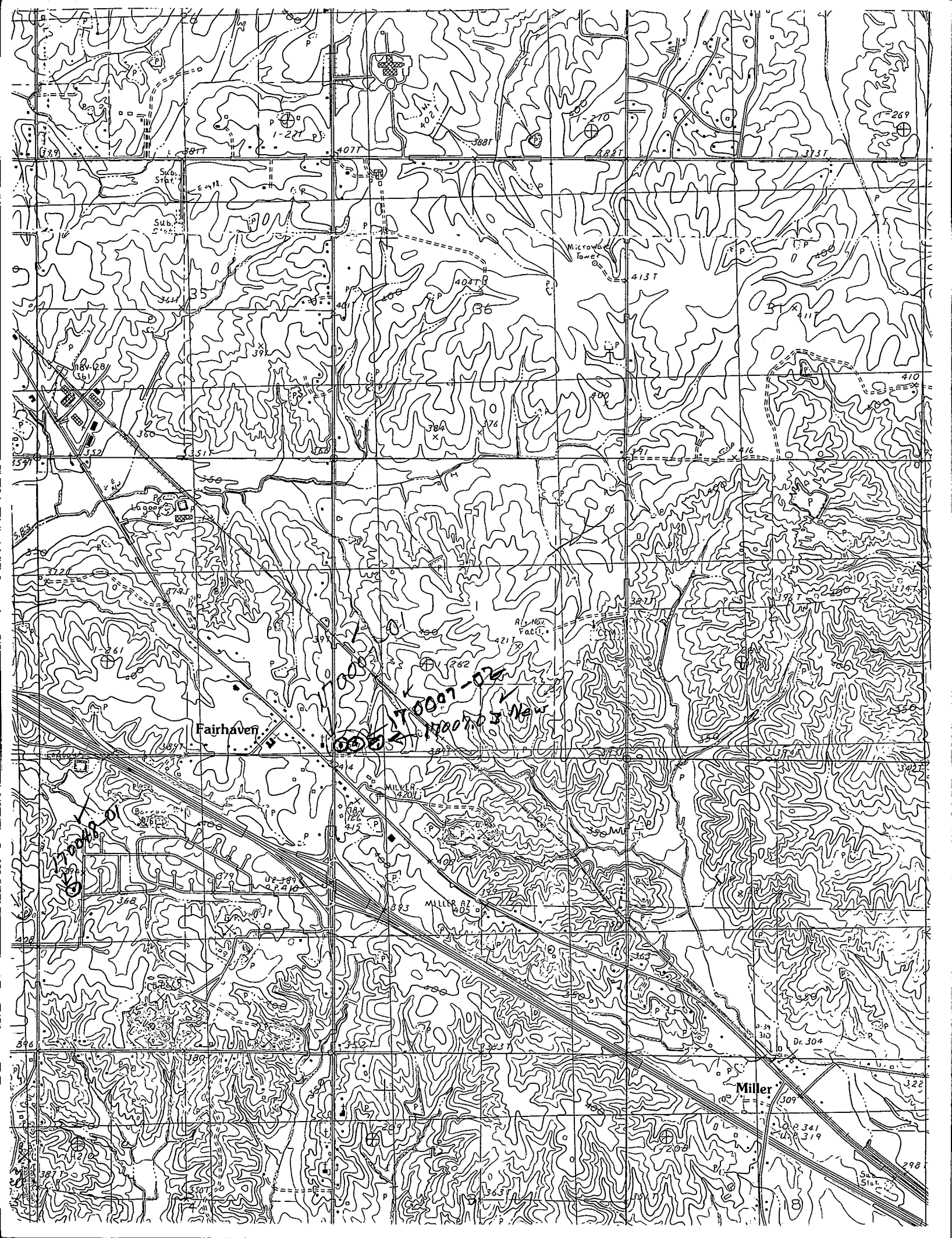
Joseph F. Lauderdale  
\_\_\_\_\_  
(Signature)

Subscribed and sworn to before me this 14th day of August, 1995, at Olive Branch county of DeSoto  
My commission expires My Commission Expires April 13 1998  
Joseph F. Lauderdale Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

5HB + PEG  
USER NAME(S): LAR/DRTS DATE: 7/27/96  
UNIT DEQ #: 84090 FILE #: 8072877C  
HEALTH DEPT. #: 170007-01 ELEV. 8072422F  
USGS #: 460 H 34 OLWR #: GW1732  
OWNER: CITY OF OLIVE BRANCH - FAIRHAVEN  
LOCATION: SW/SW/SW S 1 T 2S R 5W COUNTY: DeSoto  
Olive Branch Quad  
LOCATION DESCRIPTION: 200' SOUTH of HACK CROSS RD.  
E 100 FT EAST of Old Hwy 78  
CASING DIA: 8" PUMP TYPE & SIZE: Turbine / 30  
GPS FIELD LOCATION: LAT. ~~34.56027N~~ LONG. ~~89.47657W~~  
34° 56' 00.3" 89° 47' 36.5"  
GPS CORRECTED LOCATION: LAT. 34.79375966 LONG. 34.93331859  
89.  
REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ AB.



Sub. Stat.

Sub. Stat.

Microwave Tower

Fairhaven

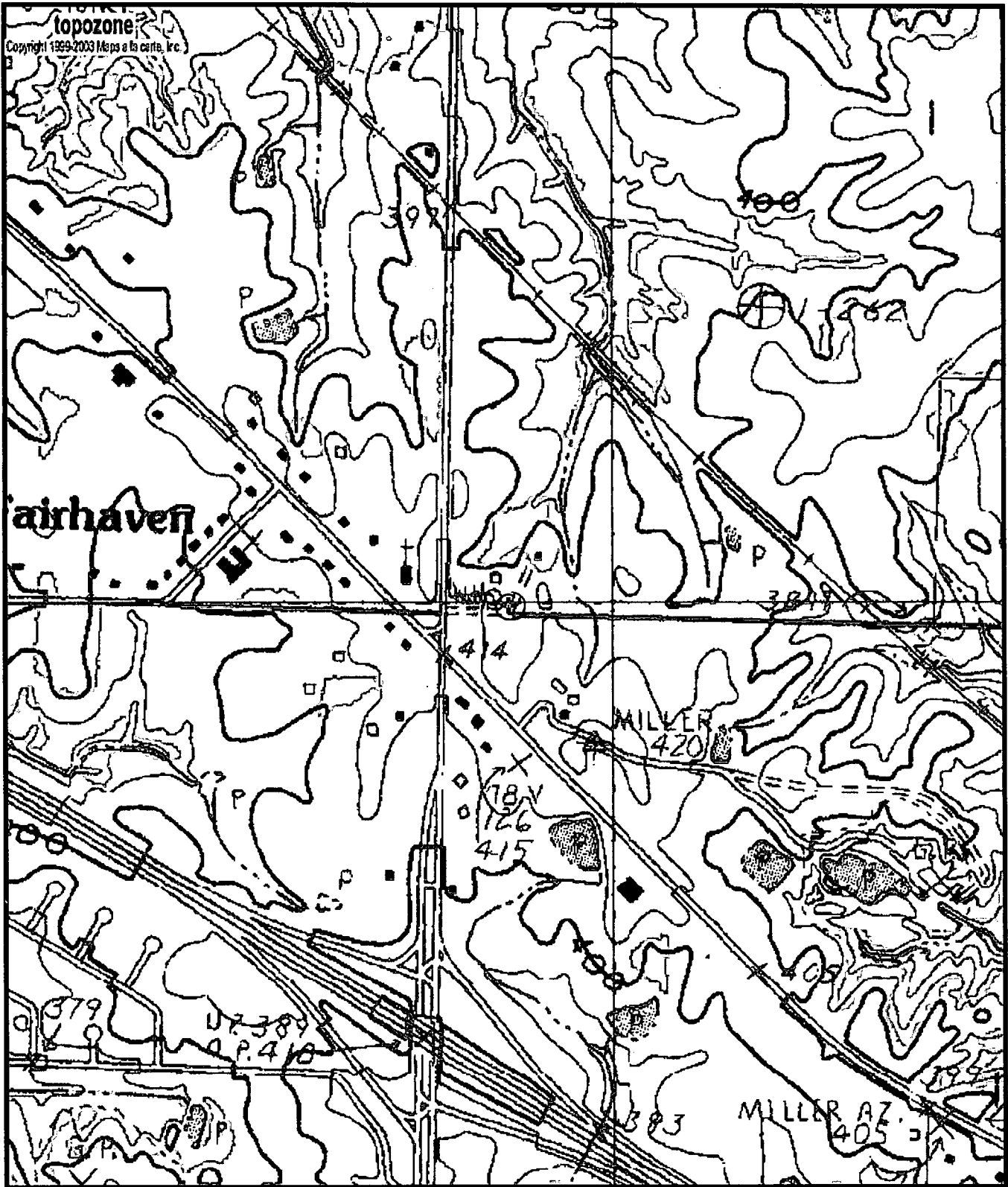
70007-02  
11007-03 New

Mill

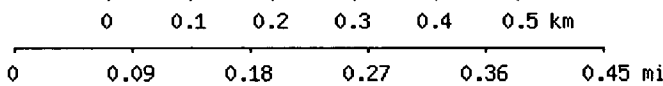
Miller

Dr. 304

Sub. Stat.



0170007-01  
6W01732  
H34



Map center is 34° 56' 00"N, 89° 47' 38"W (WGS84/NAD83)

**Olive Branch** quadrangle

Projection is UTM Zone 16 NAD83 Datum

M=-0.172  
G=-1.601