

SITE ID. 34.5717089503601

FORM 9-1642 (1-68)

Well No.

D 46

303

WELL SCHEDULE  
GEOLOGICAL SURVEY

E log # 24

U. S. DEPT. OF THE INTERIOR

WATER RESOURCES DIVISION

PUNCHED  
SEP 26 1973

MASTER CARD

Record by BEW Source of data Bowc Date 8/173 Map Olive Branch

State Miss County (or town) DE SOTO

Latitude: 34° 57' 19" N Longitude: 08° 50' 36" W Sequential number: 1

Local well number: D 046 AC 2301 S 06 W Other well number: Well # 3

Local use: 064024 Owner or name: OLIVE BRANCH

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

Use of water: Mu

Use of well: W

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: E log 2' - 418'

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 410 Meas. rept. accuracy 3

Depth cased: 349 Casing type: 3 Diam. 16

Finish: 5

Method Drilled: H

Date Drilled: 8-21-73 Pump intake setting: 973

Driller: SINGER LAYNE address MEMPHIS, TENN.

Lift (type): T Deep 40 Shallow

Power (type): 100 Trans. or meter no. V

Descrip. MP 410 ft above LSD, Alt. MP 400

Alt. LSD: 380 Accuracy: topo

Water Level: 156 Accuracy: D

Date meas: 873 Yield: 1250 Method determined 61

Drawdown: 62 Accuracy: 65 Pumping period 68

QUALITY OF WATER DATA: Iron 69 Sulfate 70 Chloride 71 Hard. 72

Sp. Conduct 73 Temp. 74 Date sampled 77

Taste, color, etc. 79

MAR 9 1975

town well  
surface water

10/31/86  
172.15

11/30/88  
Not measured  
Obsrvtn.  
well  
measured  
RR

11/18/80  
WL JMP - 154.38  
11/18/80 2.54  
WL LSD - 156.38  
400  
156  
244

12/4/79 BEW  
170  
69  
163  
237  
1611

WELL NO.

Well No. D46

PUNCHED

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

HYDROGEOLOGIC CARD

19 SAME AS ON MASTER CARD 20 Physiographic Province: 03 Section: \_\_\_\_\_

21 D Drainage Basin: 15E Subbasin: \_\_\_\_\_

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

24 MAJOR AQUIFER: \_\_\_\_\_ system \_\_\_\_\_ series TE \_\_\_\_\_ aquifer, formation, group S-S mw

25 Lithology: \_\_\_\_\_ Origin: 2 Aquifer Thickness: 70 ft

26 Length of well open to: \_\_\_\_\_ ft 61 Depth to top of: \_\_\_\_\_ ft 345

27 MINOR AQUIFER: \_\_\_\_\_ system \_\_\_\_\_ series \_\_\_\_\_ aquifer, formation, group \_\_\_\_\_

28 Lithology: \_\_\_\_\_ Origin: \_\_\_\_\_ Aquifer Thickness: \_\_\_\_\_ ft

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

30 Intervals Screened: \_\_\_\_\_

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

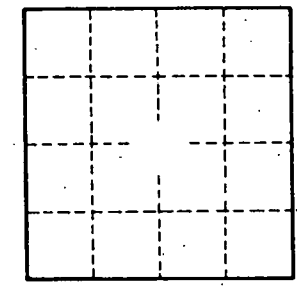
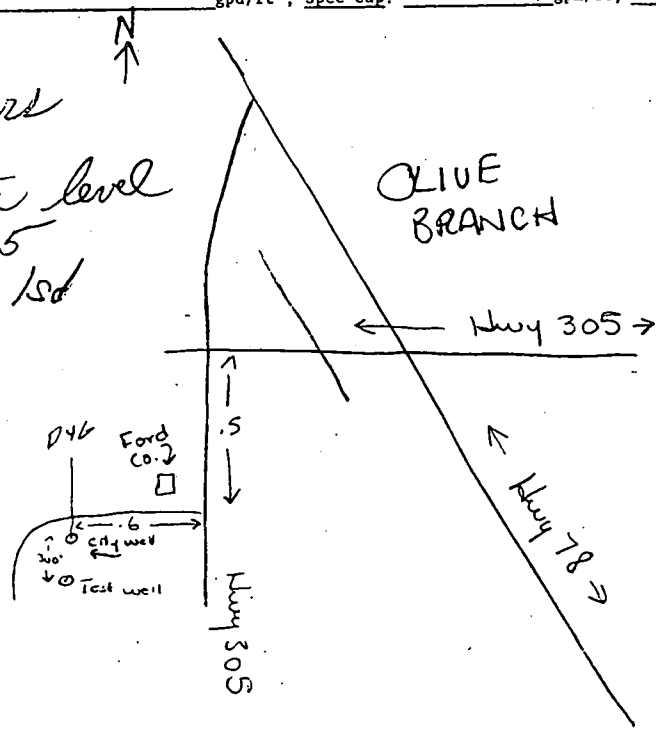
32 Depth to basement: \_\_\_\_\_ ft \_\_\_\_\_ Source of data: \_\_\_\_\_

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

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

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

450 contours  
measured water level  
5-16-74 @ 1625  
155' below 1st



Right onto 305  
to left  
Allen Ford

DeSOTA  
D46  
log # 24

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

WATER WELL DRILLERS LOG  
SINGER LAYNE

8/21

19 73 Town of Olive Branch

DeSoto

date well completed

firm name

county well located

LANDOWNER:	description of formations encountered	from	to
Town of Olive Branch	Clay	0	3
Olive Branch, Mississippi	Sand & Gravel	30	5
(mailing address)	Rock	52	5
<b>WELL LOCATION:</b>	Sandy Clay	55	28
sec. 33 T. 1 N. 35 R. 6 W.	Sand & Clay	285	33
	Sand & Clay St.	331	34
_____ miles _____ of _____	Sand	349	37
(distance) (direction) (nearest town)	Sand & Clay Stks	377	40
<b>WELL PURPOSE:</b>	Sandy Clay	407	42
(home, irrigation, municipal, industrial)			
<b>WELL COMPLETION DATA:</b>			
(1) diameter (inches) 16"			
(2) total depth (feet) 410			
(3) static water level (feet) 156 below top of ground.			
(4) casing steel 339' (material), (depth)			
(size) if telescope see back.			
(5) screen 61' 293' 399' (length), (depth to top)			
10" stainless steel (size), (material)			
(6) pump 100 1250 (HP), (yield gpm)			
electric (type power)			
(7) electric log yes (yes or no)			
USGS (organization running log)			
(8) how well bottom plugged cement			
<b>DRILLERS REMARKS:</b>			

APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW 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) 961-5207

Mississippi Department of Environmental Quality  
Office of Land & Water Resources  
FORM OLWR-AP-2 (REV. 9/94)

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

Issued: <u>2-25-86</u>	Expires: <u>2-25-2006</u>	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-0166

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):  
NW 1/4 of the SE 1/4 of Section 33, 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)

- 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)? 8 - 21, 19 73. Under whose name was well originally drilled (if known)? CITY OF OLIVE BRANCH
- Description of proposed or completed well:
  - DEPTH OF WELL: 410 feet. DRILLER: Singer - Layne, Memphis, TN.
  - SURFACE CASING: Length \_\_\_\_\_ feet; Diameter 16 inches; Type Steel Coated
  - SCREEN: Length 60 feet; Diameter 10 inches; Type Stainless Steel
  - PUMP: Type \_\_\_\_\_; Size \_\_\_\_\_; Capacity 1250 gallons per minute; Setting depth \_\_\_\_\_ feet
  - POWER UNIT: Type ELECTRIC; Size 100 horsepower
- PERMITTED VOLUME:
  - \_\_\_\_\_ acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute
  - 0.5, 84 million gallons per day at a maximum rate of 1250 gallons per minute

(CONTINUED ON BACK)

36

1250

**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 9000 or (b) The number of connections is 17000  
3500  
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?  

0.375	2000	0.450	2005	0.450	2010	0.500	2015
(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:** THIS WELL ALTERNATES WITH TWO OTHER WELLS AT MAIN WATER PLANT ON COLOMA.

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 14<sup>th</sup> day of August, 19 95, at Coloma, DeSoto County of DeSoto  
My commission expires April 13 1998  
Jayce Harris  
\_\_\_\_\_  
Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): SHB + PEG 7-24-94  
LARTARR DATE: 7/27/94  
UNIT DEQ #: 84090 FILE #: B072718A  
HEALTH DEPT. #: 170015-03 ELEV. B072421B  
380  
USGS #: D46 OLWR #: MS-GW 01664  
OWNER: City of Olive Branch  
LOCATION: NW/SW/SE S 33 T 15 R 6W COUNTY: DeSoto  
Olive Branch Quad  
LOCATION DESCRIPTION: AT WATER PLANT ON Hwy 78  
CORMA AVE OLIVE BRANCH  
CASING DIA: 24" PUMP TYPE & SIZE: TURBINE 100 HP  
GPS FIELD LOCATION: LAT. 34.5708911 LONG. 89.502304  
34° 57' 06.6"  
GPS CORRECTED LOCATION: LAT. 34.95151944 LONG. 89° 50' 12.6"  
89.83721029

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Water Well Field Data Form

USGS Well No. D-46 County DeSoto

T \_\_\_\_\_ R \_\_\_\_\_ S \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_

Local Well Name Well #3

Owner Olive Branch

Date 6/23 1994 Party JG

OLWR Permit No. MS-GW- \_\_\_\_\_ Quad Map Olive Branch

Health Department (PWS) Tag No. 170015-02

GPS File No. D062314A Elevation 410 ft.

Measuring Point Vent Pipe on fence side of pump

Previous Water Level 172.15 ft. Date 10/31/89

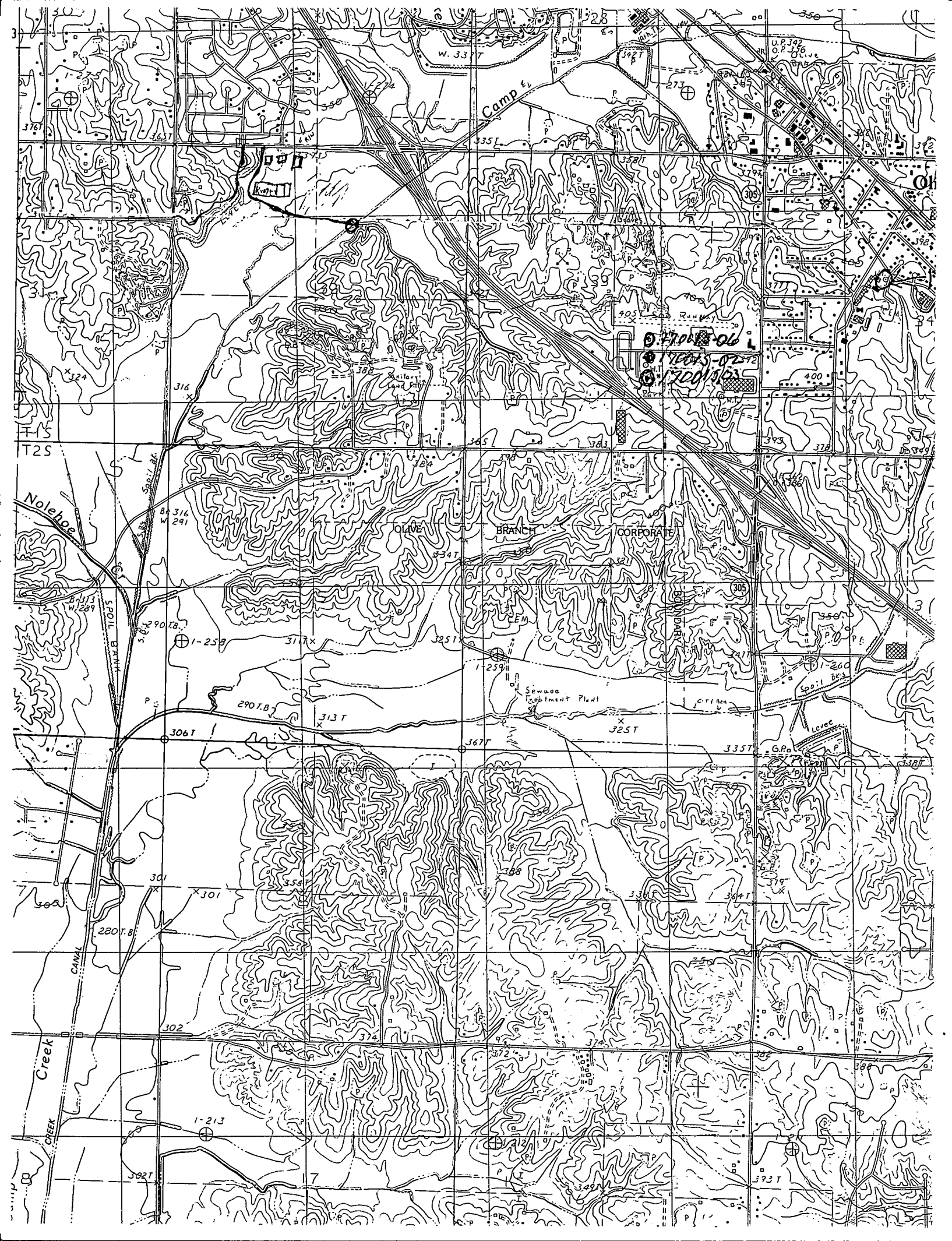
Tape down no.	1	2	3	4
Time	9:20			
Held	174.00	175.00		
Wet	5.17	6.22		
Difference	168.83	168.78		
MP Correction	2.45	2.45		
Water Level	166.38	166.33		
WL corr. to MSL				

Note: Provide sketch of location and/or measuring point on back if necessary.

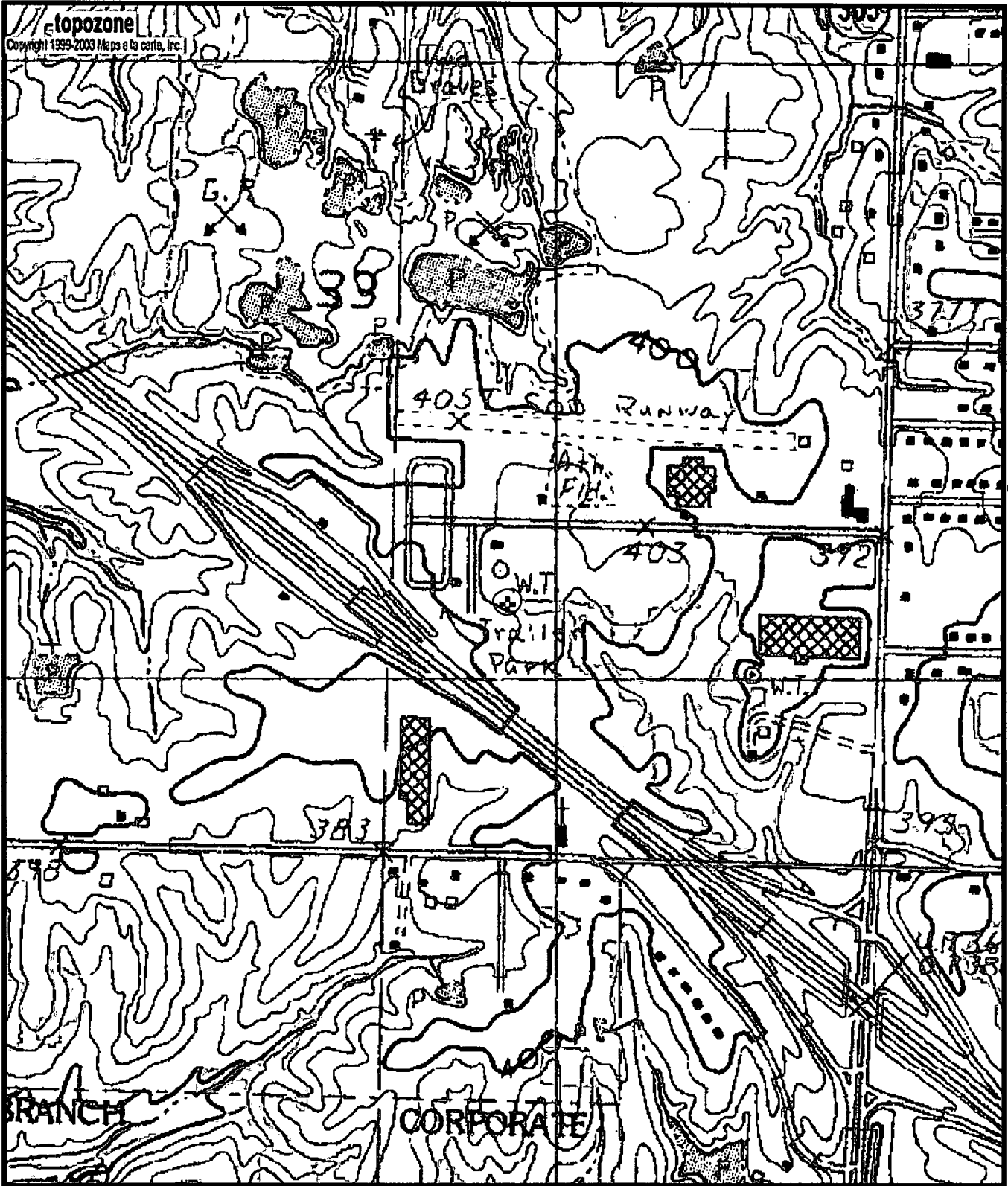
Remarks: \_\_\_\_\_

Lat - 34 56 35.1

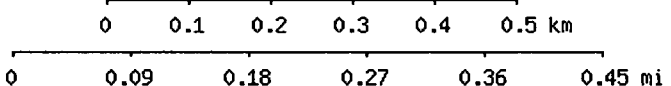
Long - 89 54 07.0







0170015-03  
 GW01664  
 D46



Map center is 34° 57' 05"N, 89° 50' 14"W (WGS84/NAD83)  
**Olive Branch** quadrangle  
 Projection is UTM Zone 16 NAD83 Datum

