

6W15166 DOH #170032-01  
576-1141

FORM 9-1642  
(1-68)

Well No. G16  
Elog #19

MAY 21 1970  
PUMPED

WELL SCHEDULE  
GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD

Record by WTD Source of data USGS TENN. Elog Date 7/70 Map Pleasant Hill

State 28 County (or town) Desoto 117

Latitude: 34 54 12 N Longitude: 08 9 55 09 Sequential number: 1

Lat-long accuracy: 2 T. 2 N. 3 R. T E. 23 Sec. NW 1, NW 1, NW 1

Local well number: 6016882302507W Other number: B & H

Local use: 009019 Owner or name: North ms Utility Co.

Owner or name: LAKEWOOD SUB Address: Pleasant Hill

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

Use of water: (A) (B) (C) (D) (E) (F) (H) (I) (M) (N) (P) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) PW

Use of well: (A) (D) (G) (H) (I) (P) (R) (T) (U) (W) (X) (Z) T

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

Hyd. lab. data:

Qual. water data; type: SPRT

Freq. sampling:  Pumpage inventory:  yes no period:

Aperture cards:  yes

Log data: Elog 12' - 310' DE

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 322 ft Meas. rept 3

Depth cased: 258 ft Casing type: steel ; Diam. 10x6 in 10

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horz. gallery, (I) open end, (P) perf., (S) screen, (T) sd. pt., (W) shored, (X) open hole, (Z) other 3

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

Date Drilled: 9-70 Pump intake setting: 30 ft

Driller: CARLOSS

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 T Deep  Shallow

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 30  Trans. or meter no. 30

Descrip. MP 380 ft above below LSD, Alt. MP 385

Alt. LSD: 385 Accuracy: T

Water Level Date meas: 9-70 Yield: 572 gpm Method determined

Drawdown: 144 ft Accuracy: 572 Pumping period: 572 hrs

QUALITY OF WATER DATA: Iron 3 Sulfate 1 Chloride 1 Hard. 1

Sp. Conduct 3 K x 10<sup>6</sup> Temp. 3 °F Date sampled 3

Taste, color, etc.

Well No. 616

Latitude-longitude N  
S  
d m s d m s

**HYDROGEOLOGIC CARD**

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

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

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

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

Lithology: \_\_\_\_\_ S Origin: 3 Aquifer Thickness: 150+ ft  
Length of well open to: \_\_\_\_\_ ft 60 Depth to top of: \_\_\_\_\_ ft 160

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: \_\_\_\_\_

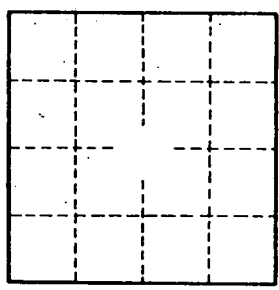
Depth to basement: \_\_\_\_\_ ft \_\_\_\_\_ Source of data: \_\_\_\_\_

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

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

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

~~11130~~



Well No.

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

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

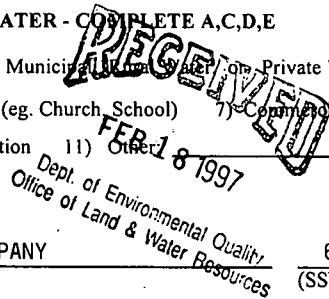
This box is for office use only.

FORM OLWR-AP-2 (REV. 9/94)

Issued: <u>4-8-97</u>	Expires: <u>4-8-2007</u>	Fee Paid: <u>X</u>	Permit No.
Lat. <u>34-54-13</u>	Long. <u>89-55-04</u>	Elev. <u>380</u>	USGS No. <u>G-16</u>
Quad: <u>Pleasant Hill</u>	ASCS Farm No.	STAC.	MSDOH No. <u>170032-01</u>
Aquifer: <u>SPRT</u>	Tract No.		Basin No.
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): **NEW PERMIT** RENEWAL - PERMIT NO. G-16  
 THIS APPLICATION IS FOR (Circle one): **GROUNDWATER** COMPLETE A,B,E AGW17070016  
GW 15166  
 SURFACE WATER - COMPLETE A,C,D,E

BENEFICIAL USE (Circle one or more):  1) Public Supply - Municipal 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: NORTH MISSISSIPPI UTILITY COMPANY 64-0676172  
 (Name) (SSN or Tax ID No.)  
P O BOX 362, 1481 BYHALIA RD  
 (Address)  
HERNANDO MS 38632 ( 601 ) 429 - 9509  
 (City) (State & Zip) (Telephone No.)

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

(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 NW 1/4 of Section 23, Township 2S, Range 7W, 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: SPARTA MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170032-01
- Proposed work will begin on \_\_\_\_\_, 19\_\_\_\_, and will be completed by \_\_\_\_\_, 19\_\_\_\_  
 If well has already been drilled, when was well completed (date)? SEPTEMBER 1, 19 70. Under whose name was well originally drilled (if known)? LAKWOOD SUBDIVISION (SIGNAL UTILITIES) (Buddy Down)
- Description of proposed or completed well:
  - DEPTH OF WELL: 322 feet. DRILLER: CARLOSS WELL SUPPLY
  - SURFACE CASING: Length \_\_\_\_\_ feet; Diameter 10 inches; Type STEEL
  - SCREEN: Length 60 feet; Diameter 6 inches; Type STAINLESS
  - PUMP: Type TURBINE; Size 30 HP; Capacity 350 gallons per minute; Setting depth \_\_\_\_\_ feet
  - POWER UNIT: Type \_\_\_\_\_; Size \_\_\_\_\_ horsepower
- PERMITTED VOLUME:
  - \_\_\_\_\_ acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute
  - 0.120 .21 million gallons per day at a maximum rate of 350 gallons per minute

2 (CONTINUED ON BACK)

**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 \_\_\_\_\_ 516  
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? 

125,000	2000	130,000	2005	132,000	2010	135,000	2015
(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.

BILL J ROBERSON  
(Name)  
P O BOX 362  
(Address)  
HERNANDO, MS 38632  
(City, State, Zip)  
601-429-9509  
(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.

Bill J. Roberson  
(Signature)

Subscribed and sworn to before me this 13<sup>th</sup> day of Feb, 1997, at Hernando County of Mississippi  
My commission expires March 23' 98; Shonora R. Alston Notary Public.

DESOTO  
G 16  
9-1-70

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

WATER WELL DRILLERS LOG

CODED

September 1, 1970 Carloss Well Supply Co. Desoto  
date well completed firm name county well located

LANDOWNER:	description of formations encountered	from	to
LAKELWOOD SUB. S & W Construction Co.	Red Sandy Clay	0	18
2630 Midland, Memphis, Tenn. (mailing address)	Sand and Gravel	18	67
WELL LOCATION: sec. 23 T. 2 S. R. 7 W. 6 miles East of Nesbit (distance) (direction) (nearest town)	Blue Clay	67	84
	Sandy Shale	84	167
	Fine Sand	167	200
	Sand with Clay	200	271
	Sand	271	293
	Sand	293	320
WELL PURPOSE: Municipal (home, irrigation, municipal, industrial)			
WELL COMPLETION DATA: (1) diameter (inches) 10" (2) total depth (feet) 322' (3) static water level (feet) 144' below top of ground. (4) casing Steel, 245' (material) (depth) If telescope see back. (5) screen 60', 258' (length) (depth to top) 6" Stainless (size) (material) (6) pump 3, 572 (HP) (yield gpm) electric (type power) (7) electric log yes (yes or no) U.S.G.S. (organization running log) (8) how well bottom plugged B.P. Valve			
DRILLERS REMARKS:			

CHART

SEP 24 1970

MISS. BO. OF  
WATER COMM.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

SHB + PEG  
USER NAME(S): LAR / ORS DATE: 7-24-96  
UNIT DEQ #: 84090 FILE #: 8072413F  
HEALTH DEPT. #: 170032-01 ELEV. 300  
USGS #: 517 G-16 OLWR #: MSGW-15166  
OWNER: N. MS. Utl. / Bridge town  
LOCATION: NW / NW / NW S<sup>23</sup> T 02S R 07W COUNTY: De Soto  
Pleasant Hill Quad. W. side  
LOCATION DESCRIPTION: Well located in fenced area of  
Elevated Tank + Treatment Plant  
CASING DIA: 10" PUMP TYPE & SIZE: Turbine / 25  
GPS FIELD LOCATION: LAT. ~~34-54-225~~ LONG. 89-54-997 W  
34°54' 13.0" 89°55' 08.9"  
GPS CORRECTED LOCATION: LAT. 34.90373872 LONG. 89.91789172  
REMARKS: Stay on Mabour Rd. <sup>90° N.</sup> approx. 2.1 mile to Bienville  
dr. Turn L, go HASCA Dr. Turn W. Well is on  
L.

see spot on Quad

SEE PAGE 34

R 7 W

R 6 W

6000E

6500E

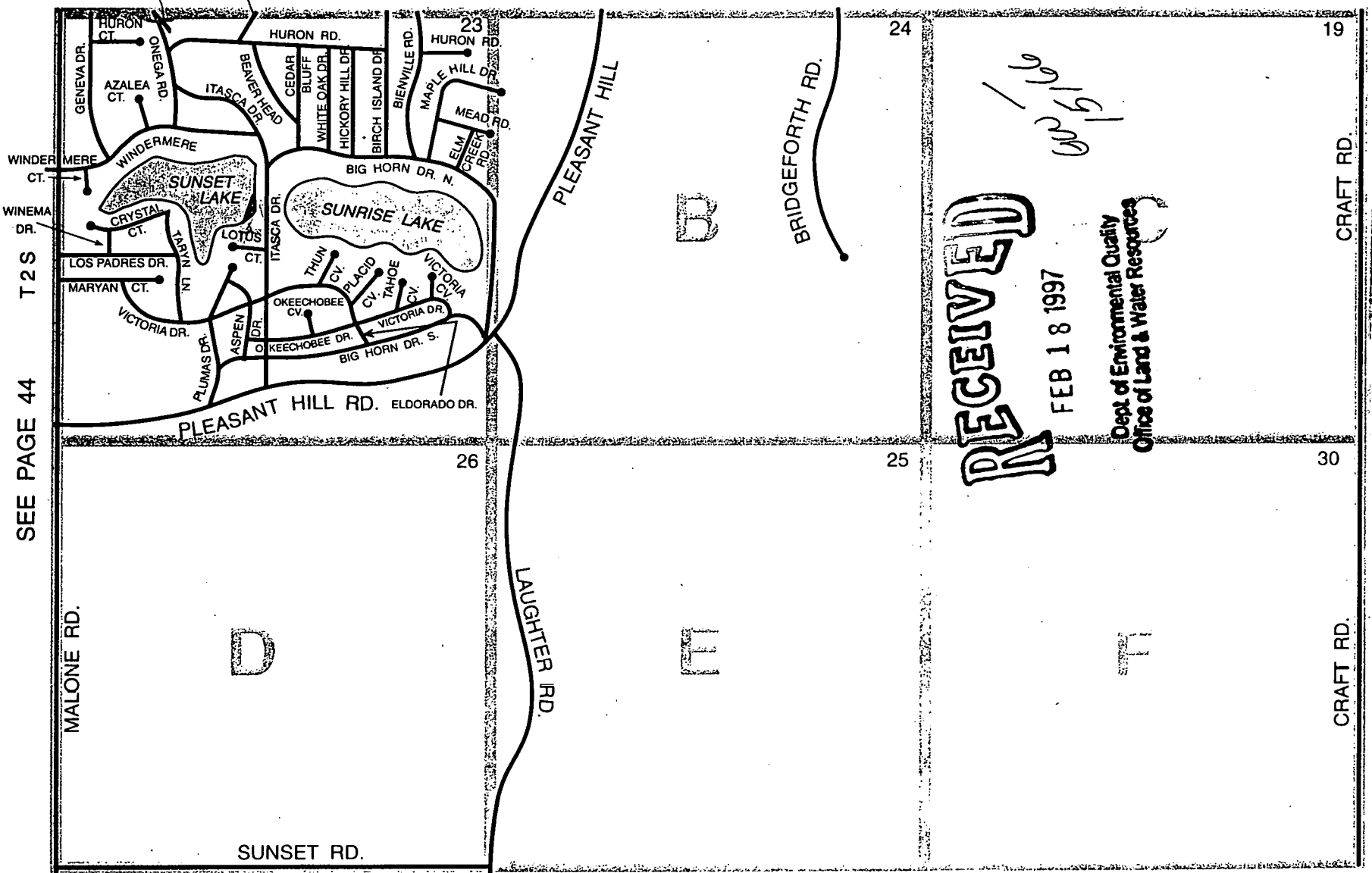
7000E

4000E

4500E

5000E

5500E



SEE PAGE 44

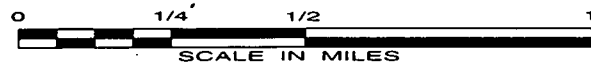
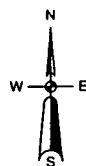
T 2 S

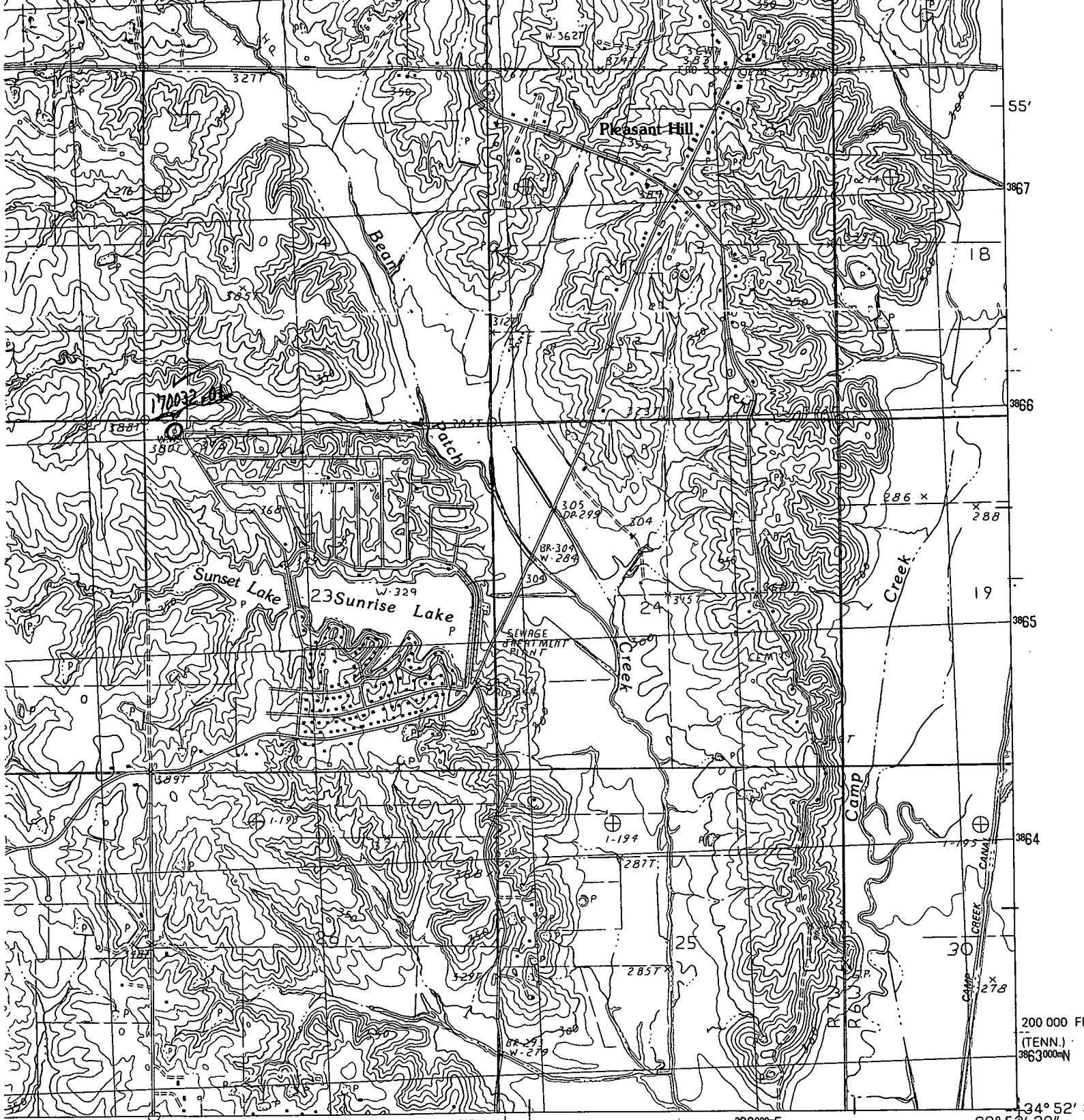
RECEIVED

FEB 18 1997

Dept. of Environmental Quality  
Office of Land & Water Resources

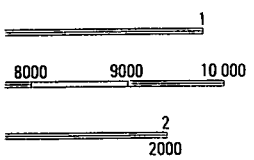
SEE PAGE 56





830 000 FEET (TENN.)

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1982



QUADRANGLE LOCATION

1	2	3	1 Southwest Memphis
			2 Southeast Memphis
			3 Germantown
4		5	4 Horn Lake
			5 Olive Branch
			6 Frees Corners
6	7	8	7 Hernando
			8 Lewisburg

ROAD LEGEND

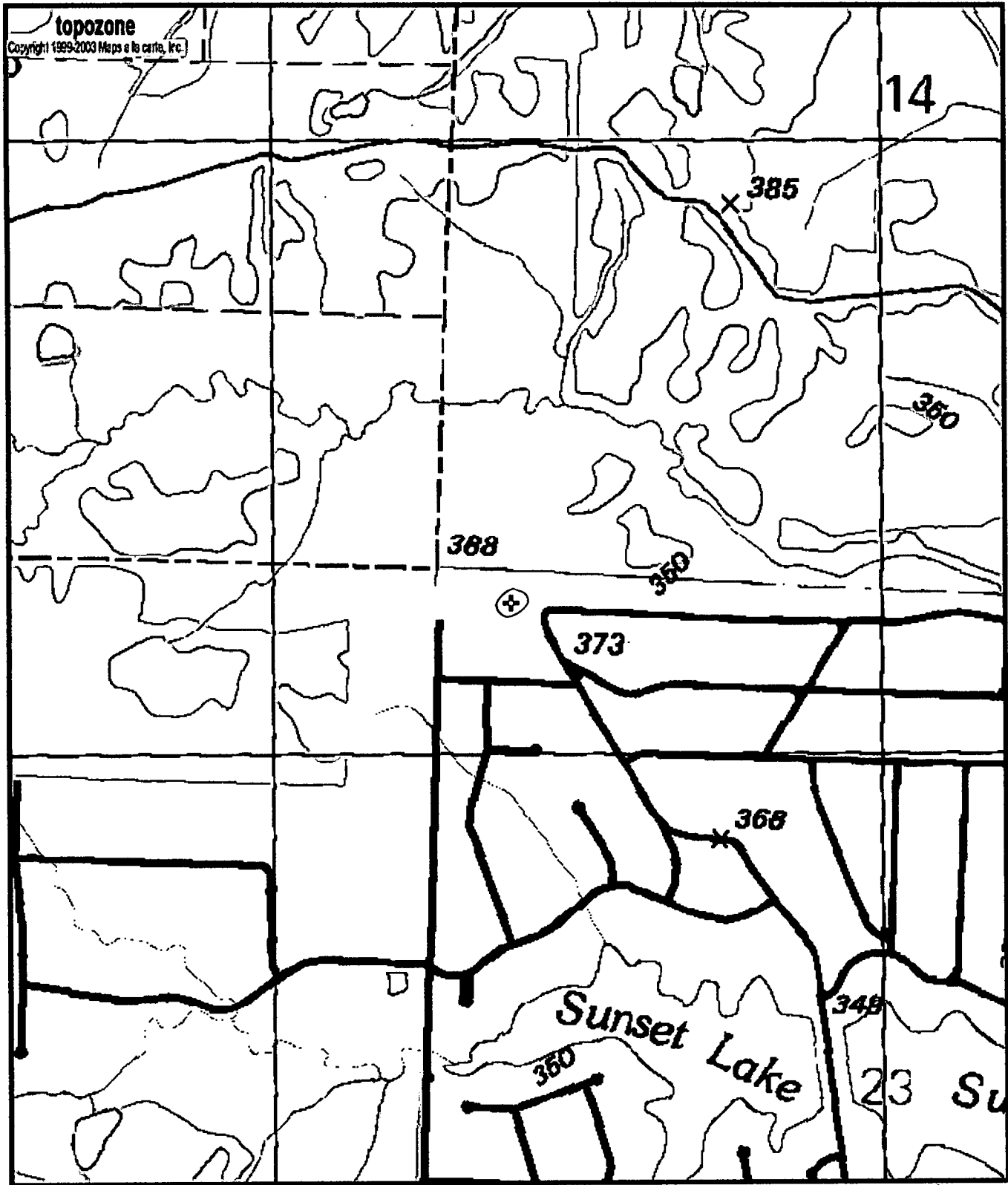
- Improved Road .....
- Unimproved Road .....
- Trail .....
- Interstate Route    ◻ U. S. Route    ○ State Route

PLEASANT HILL, MISS.—TENN.

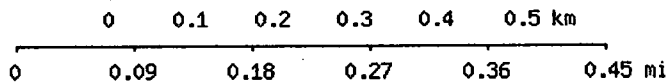
PROVISIONAL EDITION 1982

RDS  
A 22092  
37910





0170032-01  
 G6015166  
 G16



Map center is 34° 54' 13"N, 89° 55' 04"W (WGS84/NAD83)

**Pleasant Hill** quadrangle

Projection is UTM Zone 16 NAD83 Datum



M=-0.074  
 G=-1.671