

9-185
(October 1950)

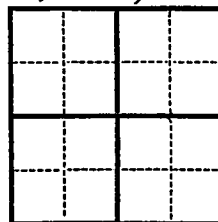
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

~~B 305~~

WELL SCHEDULE

Date Co- 23 -, 19 61 Field No. _____
Record by _____ Office No. B7
Source of data MBOWE

1. Location: State Miss. County DeSoto
Map 1/4 mile below TENN. St. Line (Hwy #51)
_____ $\frac{1}{4}$ _____ $\frac{1}{4}$ sec. _____ T _____ N _____ S _____ R _____ E _____ W
2. Owner: DeSoto Utilities Address DeSoto Co., Miss.
Tenant _____ Address _____
Driller Carloss Well Supply Co. Address Memphis, Tenn.
3. Topography 14; 114
4. Elevation _____ ft. above _____ below
5. Type: Dug drilled, driven, bored, jetted 5/5/61
6. Depth: Rept. 370 ft. Meas. _____ ft.
7. Casing: Diam. 12 in., to _____ in., Type _____
Depth 320 ft., Finish 50' - 8"
8. Chief Aquifer _____ From _____ ft. to _____ ft.
Others _____
9. Water level 81 ft. rept 1961 above top
of ground meas. _____ below _____
_____ which is _____ ft. above _____ below surface
10. Pump: Type _____ Capacity _____ G. M.
Power: Kind _____ Horsepower _____
11. Yield: Flow _____ G. M., Pump 500 G. M., Meas., Rept. Est. _____
Drawdown _____ ft. after _____ hours pumping _____ G. M.
12. Use: Dom., Stock, PS, RR., Ind., Irr., Obs. _____
Adequacy, permanence _____
13. Quality _____ Temp. _____ °F.
Taste, odor, color _____ Sample Yes
 No
Unfit for _____
14. Remarks: (Log, Analyses, etc.) test hole to 500

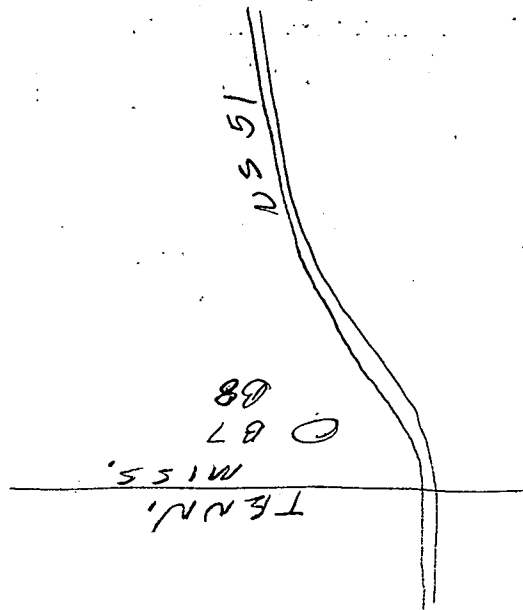


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Form 100
8-1-70

WATER RESOURCES DIVISION

Project No. _____
Section No. _____
Sheet No. _____



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

RECEIVED

JUN 18 1997

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. 10-28-97 AGN. Dept. of Environmental Quality
Office of Land & Water Resources
FORM LW-100 (Rev. 9/94)

Issued: <u>11-24-87</u>	Expires: <u>10-28-2007</u>	Fee Paid: <u>X 70.00</u>	Permit No.
Lat. <u>34-59-18</u>	Long. <u>90-01-01</u>	Elev. <u>300</u>	USGS No. <u>B7</u>
Quad. <u>HORN LAKE</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-4W-04122

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 SOUTHAVEN 64-064-2403
(Name) (SSN or Tax ID No.)
P.O. Box 425
(Address)
SOUTHAVEN MS. 38671 (601) 393 - 5931
(City) (State & Zip) (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner):
(Name) _____ (SSN or Tax ID No.) _____
(Address) _____
(City) _____ (State & Zip) _____ (Telephone) _____

MAP SENT

Location of diversion/withdrawal point (A suitable map with location marked must accompany this application):
SW 1/4 of the NW 1/4 of Section 23, Township 01S, Range 08W, 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. TWO OTHER WELLS & PLANT
170018-10 & 170018-02

SECTION B (to be completed for GROUNDWATER SOURCE)

- AQUIFER: SPARTA SAND MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170018
- Proposed work will begin on _____, 19____, and will be completed by _____, 1961.
If well has already been drilled, when was well completed (date)? 5-15, 1961. Under whose name was well originally drilled (if known)? DEVELOPER - DE. SOTO TUBES
- Description of proposed or completed well:
 - DEPTH OF WELL: 376 feet. DRILLER: CARLOSS WELL SUPPLY Co.
 - SURFACE CASING: Length 318 feet; Diameter 12 inches; Type STANDARD T&C
 - SCREEN: Length 50 feet; Diameter 8 inches; Type VERTICAL STAINLESS STEEL
 - PUMP: Type TURBINE; Size 10"; Capacity 500 gallons per minute; Setting depth 186 feet
 - POWER UNIT: Type ELECTRIC; Size 30 horsepower
- PERMITTED VOLUME:
 - _____ acre-feet per year at a maximum rate of _____ gallons per minute
 - 0.35 million gallons per day at a maximum rate of 500 gallons per minute
0.35 88 8-27-97 (CONTINUED ON BACK) See

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
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 22455 or (b) The number of connections is 8317
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>3.4 MGD</u>	<u>2000</u>	<u>3.6 MGD</u>	<u>2005</u>	<u>3.9 MGD</u>	<u>2010</u>	<u>4.2 MGD</u>	<u>2020</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.

J. A. CATES, MAYOR
(Name)
P.O. Box 425
(Address)
SOUTHAVEN, MS. 38671
(City, State, Zip)
601-393-5931
(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. A. Cates
(Signature)

Subscribed and sworn to before me this 21st day of May, 1997, at Southaven County of DeSoto
NOTARY PUBLIC STATE OF MISSISSIPPI AT LARGE.
 MY COMMISSION EXPIRES: Apr. 6, 2001.
Shirley W. Bennett Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

SHB + PEG
USER NAME(S): LAM / OXS DATE: 7-24-96
7/28/96
UNIT DEQ #: 84090 FILE #: B012215D
B072417C
HEALTH DEPT. #: 170018-02 ELEV. 280
USGS #: 489 ~~B8~~ B7 OLWR #: M5-GW-04124 04122
OWNER: City of Southaven / Whitworth Water Pt. 1
LOCATION: SE / NE / NW S 23 T 15 R 8W COUNTY: DeSoto
Horn Lk. Quad
LOCATION DESCRIPTION: Well far back behind water tanks

CASING DIA: 10" PUMP TYPE & SIZE: Turbine 140
GPS FIELD LOCATION: LAT. 34-59-30.5N LONG. 90-01-05.3W
34° 59' 17.8" 90° 01' 03.1"
GPS CORRECTED LOCATION: LAT. 34.98843694 LONG. 90.01759780

REMARKS: SEE Well #3 for location
Located at Five sta. 2 mi south of St. Line RD

* Tags on 01 + 02 may be switched; Location of wells on B7 well schedule shows B8 matching with 01 well + B7 matching with -02. *

HORN LAKE QUADRANGLE
MISSISSIPPI-TENNESSEE
7.5 MINUTE SERIES (TOPOGRAPHIC)

769

2' 30"

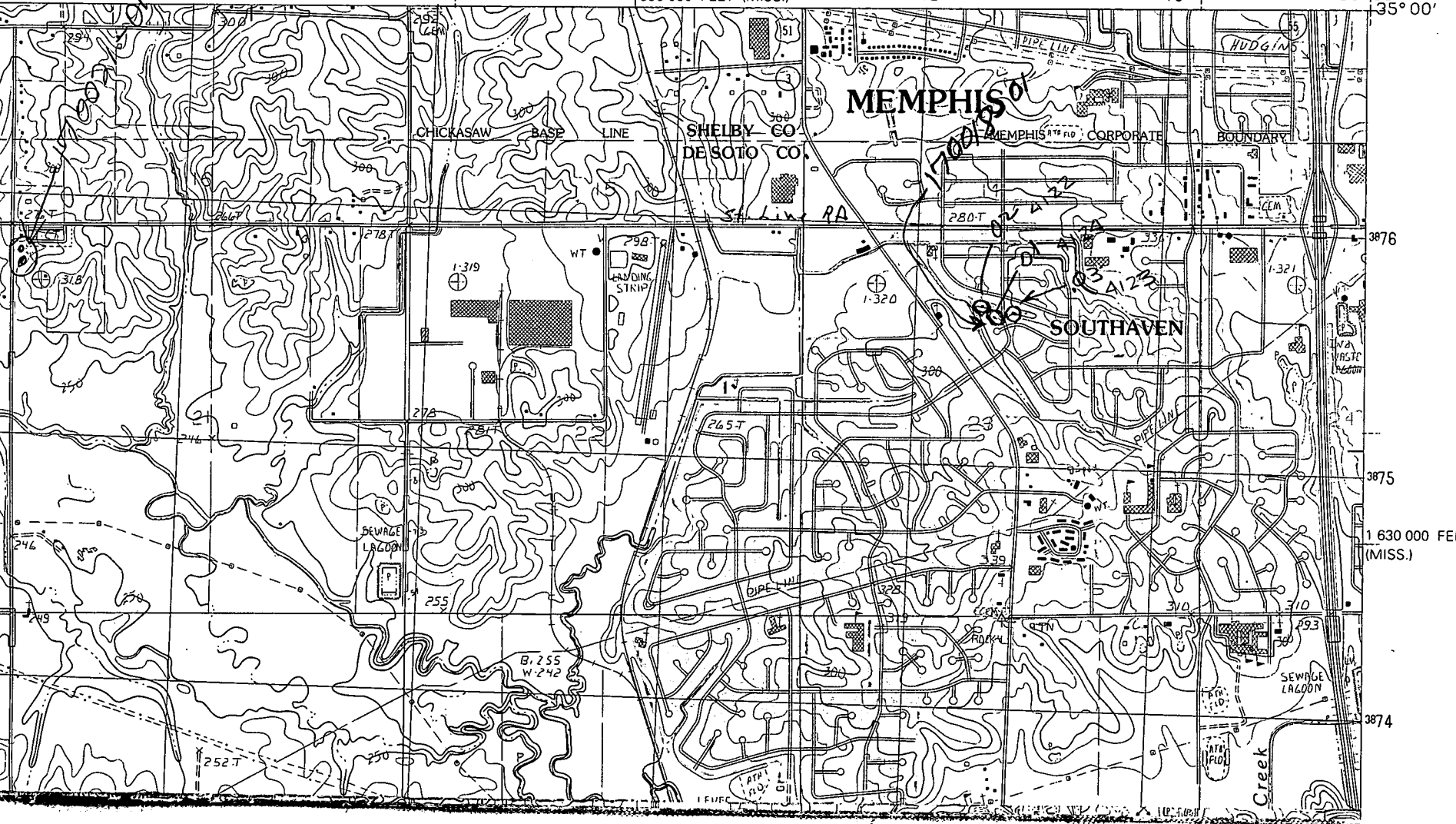
1 590 000 FEET (MISS.)

772

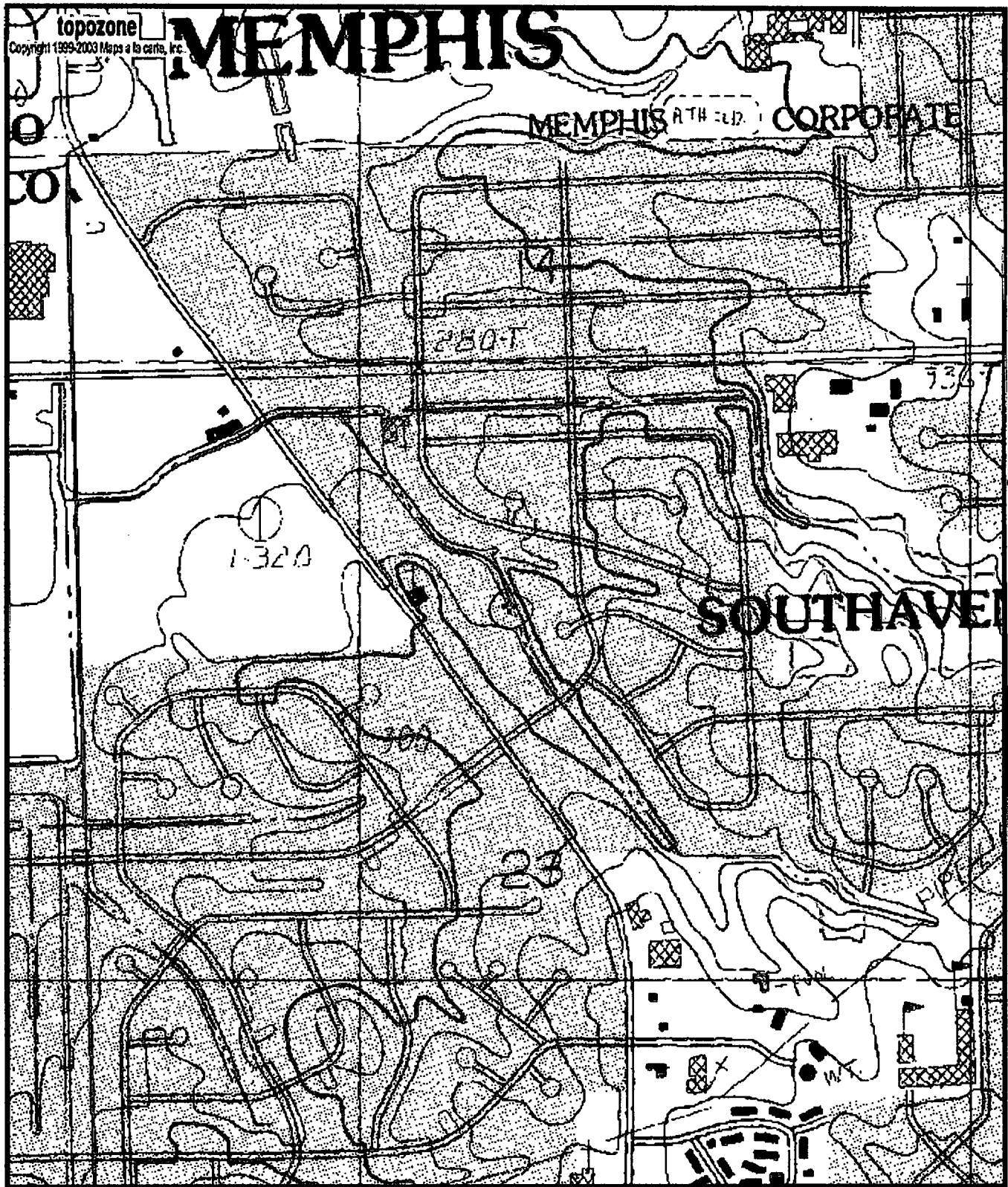
773

90° 00'

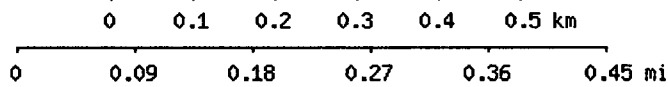
35° 00'



1 630 000 FEET
(MISS.)



0170018-02
6W04122
B7



Map center is 34° 59' 18"N, 90° 01' 03"W (WGS84/NAD83)
Horn Lake quadrangle
 Projection is UTM Zone 15 NAD83 Datum

AG
 M=-0.008
 G=1.712