

GW04126
DON#170018-04

TRANSMITTED FOR ADP

12/77

Recorded by B. E. H.

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT
WELL RECORD

Well No. C16

Date 5/16/77

E-Log No. _____

County Desoto

Pleasant Hill Quad

Site ID 345818089584601

R=0* T=A*

2=W*

Data reliab. 3=C* Report. agency 4=USGS* Dist. 6=28* 7=28* Co. 8=033*

Lat. _____
Long. 9=345818* 10=0895846* Well No. 12=C016*

Location 13=SWSE 30 T 015 R 07 W* Alt. 16=362* 346

Hyd. Unit (OWDC) 20= Date 21=0511211977*

Well use 23=W* Water Use 24=P* Hole depth 27=510.* Well depth 28=478.*

WL 30=127.* Date 31=0511211977* Source 33=S*

Status 273=Y*

Well is Abandoned

R=158* T=A* Date 159#0810111977* Owner No. Well #1 (East Well)

Owner 161=SOUTH AVE. EN. UTILITY*

SPRT

R=192* T=A* Date 193# Temp. 196#00010* 197=

R=192* T=A* Date 193# Cond. 196#00095* 197=

R=192* T=A* Date 193# pH 196#00400* 197=

R=58* T=A* 59#1* Date 60=0810111977* Remarks _____

Drlg. 63=330* Name Handson Method 65=H* Finish 66=S*

R=76* T=A* 59#1* Top csgn. 77#0.* Bot. csgn. 78=420.* Diam. 79#1.8.*

R=76* T=A* 59#1* Top csgn. 77#357.* Bot. csgn. 78=918.* Diam. 79#1.2.*

R=82* T=A* 59#1* Top 83#418.* Bottom 84=478.*

Type 85=S* Diam. 87=1.2.* Size 88=

R=82* T=A* 59#1* Top 83# Bottom 84=

Type 85= Diam. 87= Size 88=

R=146* T=A* 147#1* Q 150=1033.* Q/S 272=

134 flows 146 pumped

GEN. SITE DATA

OWNER

FIELD QW

CONSTR.

CASING

OPENINGS

YIELD

R=42* T= A * Lift type 43# T* Intake 44= * Power type 45= E*

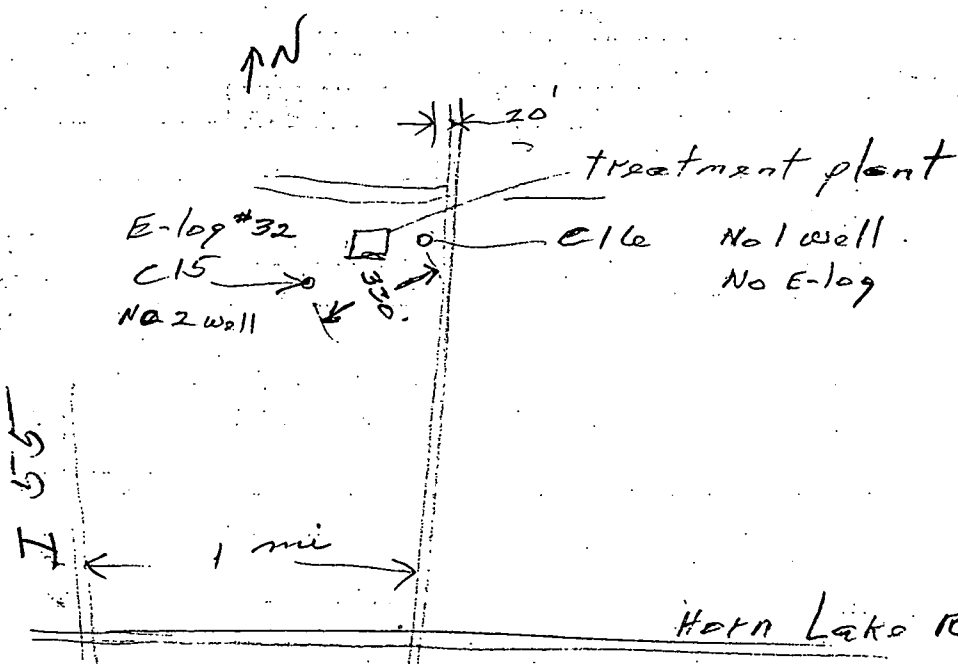
LIFT Date 38= 08/01/1977* H.P. 46= 75.*

LOGS
 R=198* T= A * Log 199# D* Top 200= 0.* Bot 201= 510.*
 R=198* T= A * Log 199# * Top 200= * Bot 201= *
 R=189* T= A * E Log No. 190# * 191= M I S S D I S T *

ANAL. R=114* T= A * Year 115# * Type 120= *

AQUIFERS
 R=90* T= A * 256# 1 * Top 91= 400.* Bot 92= 510.*
 Unit ID 93= 124SPRT * Name of Unit Sports
 R=90* T= A * 256# 1 * Top 91= * Bot 92= *
 Unit ID 93= * Name of Unit *

HYDRAULICS
 R=98* T= A * 99# 1 * Unit tested 100= *
 R=105* T= A * 99# 1 * Test No. 106# *
 107= * Transmissivity (gal/d)/ft
 108= * Hydraul. cond. (gal/d)/ft²
 110= * Storage coeff. Boundaries



11.6 gpm/ft

ENCOUNTERED	
Lay	
ed Sand	15
ed Sand	30
ravel	50
ravel	60
ed Sand	70
blue Gumbo	90
blue Gumbo & Strk Sand	240
Straked Sand & Gumbo	270

300
04/25 4126

DESOTO
C16
8-77

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

WATER WELL DRILLERS LOG
Well #1
EAST WELL
August 1977 19 Herndon Well & Supply, Inc. Desoto
date well completed firm name county well located

LANDOWNER: Utility District
Southaven, City of
Southaven, MS
(mailing address)

WELL LOCATION:
sec. 30 T. 1 N. R. 7 E
S W
Inside City of Southaven
miles of (nearest town)
(distance) (direction)

WELL PURPOSE: Municipal
(home, irrigation, municipal, industrial)

WELL COMPLETION DATA:
(1) diameter (inches) 18 x 12
(2) total depth (feet) 478'
(3) static water level (feet) 128 below top of ground.
(4) casing Steel 420'
(material) (depth)
18" If telescope see back.
(size)
(5) screen 60' 418
(length) (depth to top)
12" Stainless Steel
(size) (material)
(6) pump 75 1033
(HP) (yield gpm)
Electric
(type power)
(7) electric log yes
(yes or no)
USGS
(organization running log)
(8) how well bottom plugged 12" CI
BWV

description of formations encountered	from	to
Clay	0	15
Red Sand	15	30
Red Sand	30	50
Gravel	50	60
Gravel	60	70
Red Sand	70	90
Blue Gumbo	90	240
Blue Gumbo & Strk Sand	240	270
Streaked Sand & Gumbo	270	400
Sand	400	510

CODED

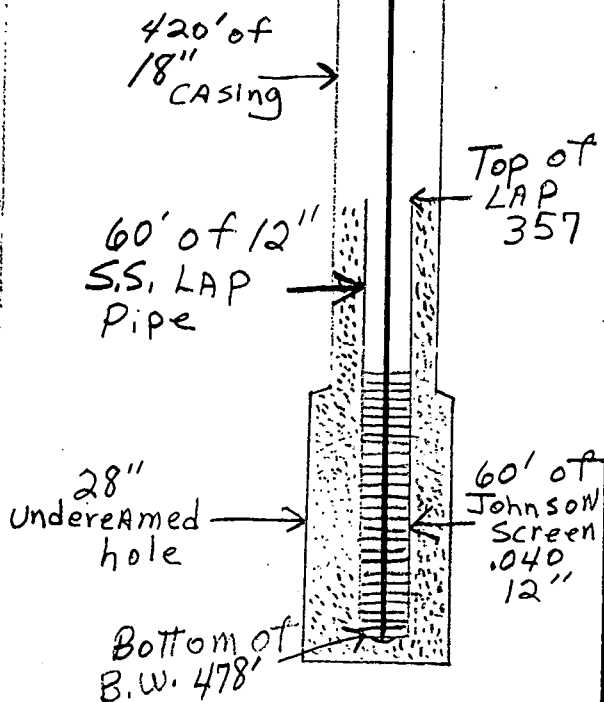
RECEIVED
OCT 2 1977

MISS. DE. OF WATER COMMISSIONERS

DRILLERS REMARKS:

If well telescopes please sketch and show depths.

GROUND LEVEL



SECTION 30

Please indicate well location X.

ADDITIONAL INFORMATION

If more than one screen, show locations of each on sketch.

State of Mississippi



Department of Natural Resources
Bureau of Land and Water Resources
P.O. Box 10631
Jackson, Mississippi 39209

Permit

TO DIVERT OR WITHDRAW FOR BENEFICIAL USE THE PUBLIC WATERS

This permit is issued to the landowner named below in accordance with the provisions of the Mississippi Water Laws (Section 51 - 3 - 1, et seq., Mississippi code of 1972, as amended) and the regulations and standards as promulgated thereunder. Authorization is hereby granted to proceed with the proposed beneficial use subject to the following terms, conditions and limitations:

PERMIT NUMBER: MS-GW-04126

LANDOWNER NAME: City of Southaven

LANDOWNER ADDRESS: P.O. Box 425 Southaven, MS 38671

SOURCE OF WATER: Sparta Aquifer System

BENEFICIAL USE: Municipal

DIVERSION/WITHDRAWAL LOCATION: SW 1/4 of the NE 1/4, Section 30,
Township 1 South, Range 7 West

COUNTY: DeSoto

MAXIMUM VOLUME: 0.400 Million Gallons per Day

MAXIMUM RATE: 1000 Gallons per Minute

APPLICANT NAME: City of Southaven

APPLICANT ADDRESS: P.O. Box 425, Southaven, MS 38671

DATE PERMIT ISSUED: November 24, 1987

DATE PERMIT EXPIRES: November 24, 1997

SPECIAL TERMS AND CONDITIONS:

DEPARTMENT OF NATURAL RESOURCES

J. J. Palmer, Jr.
J. J. Palmer, Jr.
Executive Director

7-7-95
Replaced by
14981

well

86187

RETURN COMPLETED FORM TO:
Bureau of Land and Water Resources
P.O. Box 10631
Jackson, Mississippi 39209
Telephone (601) 961-5200

RECEIVED

JUL 08 1986

For Office Use Only:	
County:	<i>De Soto</i>
Date Received:	<i>7-8-86</i>
Permit No:	<i>MS-6W-04126</i>
Quad Map:	
Water Management Dist:	
Hydrologic River Basin:	

Department of Natural Resources
Bureau of Land & Water Resources

**NOTICE OF CLAIM FOR CONTINUED USE
OF SURFACE/GROUND WATERS FOR BENEFICIAL USE**

Pursuant to the laws of the State of Mississippi, namely §51-3-5 (2) or (3), as amended, I, the landowner, _____

_____ City of Southaven _____ 64-064-2403
 _____ (Name) _____ (S/S or Tax ID No.)
 _____ P.O. Box 425 _____ Southaven _____ MS 38671
 _____ (Address) _____ (City or Town) _____ (State and Zip)
 _____ (601) 393-5931 _____, do hereby file claim for the continued use of: (circle one)
 _____ (Telephone Number)

surface water ground water for the following beneficial use: (circle one or more)

municipal; irrigation; recreation; livestock water; fish culture; industrial;

Other _____ (Specify)

1. Name & Address of agent or applicant if different from landowner.

_____ (Name) _____ (S/S or Tax ID No.) _____ (Address)
 _____ (City or Town) _____ (State and Zip) _____ (Telephone Number)

2. Location of point of diversion/withdrawal (include location map with claim)

SW¼ of NE¼ of Section 30, Township 01S, Range 07W, County Desoto

3. Volume of water diverted/withdrawn:

- (1) _____ acre feet per year, diverted/withdrawn at a maximum rate of _____ gallons per minute; or
- (2) .400 million gallons per day, diverted/withdrawn at a maximum rate of 1000 gallons per minute.

4. Description of lands on which water will be used:

(a) Copy legal description of property upon which water is to be used (may be copied word for word from your deed).

Attach separate sheet if necessary (see attached sheet)

(b) Has the above described land any water right or source of water supply other than that herein applied for?

(Water Rights Number(s) none) Describe the nature and amount of any additional supply _____

SECTION A (to be completed if source of water is from surface supply)

1. Prior water rights permit/licensed number _____, dated _____

2. Source of supply is _____ which drains into _____

3. Description of diversion works:

(a) Water obtained directly from stream: _____ (Name)

Pump _____ (Size and type) Power Unit _____ (Size and type)

Lift _____ ft. Maximum capacity _____ gpm

(b) Storage reservoir _____ (Name)

Height of dam _____ feet. Surface area at normal pool _____ acres

Storage capacity at normal pool _____ acre feet

SECTION B (to be completed if source of water is from underground supply)

1. Source of supply: Sparta aquifer(s)
2. Description of water well:
- (a) Well data:
- (1) Date well completed 1977
- (2) Depth drilled 478 feet
- (3) Type of completion Screen & Gravel Pack
- (4) Surface elevation 337 feet
- (b) Screen data:
- (1) Depth to bottom 477 feet
- (2) Length 60 feet
- (3) Diameter 12 inches
- (4) Type Stainless steel
- (5) Slot .040 inches
- (c) Casing data:
- (1) Length(s) 420 feet; Diameter(s) 18 inches
- (2) Type Steel
- (d) Pump data: 60HP
- (1) Type & Size Vertical Turbine, 8 inch (2) Capacity 1000 gpm
- (3) No. stages 3 (4) Setting depth 221 feet
- Well Driller Herndon Well & Supply Company
(Name of Company)

WATER USE DATA

1. IRRIGATION use: (a) Show number of acres to be irrigated by 40-acre blocks:

TOWN-SHIP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

- (b) List the acres to be irrigated: Rice _____; Cotton _____; Corn _____; Pasture _____; Truck _____; Other crops (_____) _____ acres.
2. If for MUNICIPAL use: (a) Present population 20,000 (1985 est.) (based on 19 80 Census)
- (b) Estimated average daily consumption during periods of maximum use at the end of each five-year period in next twenty years: (1.8 MGD now, Total system)
- 2.5 MGD 19 90; 3.4 MGD 19 95; 4.5 MGD 19 2000; 5.4 MGD 19 2005
3. If for INDUSTRIAL use: (a) If water is to be released into a watercourse, indicate: Amount released each year _____; rate of release _____; location of release point in reference to diversion point _____ (show location on map)
- (b) Explain any change in quality of water to be released: _____
4. If for RECREATIONAL use: Explain how water will be used _____
5. If for FISH CULTURE use: (a) Explain in detail how water will be used _____
- (b) Number of times reservoir will be emptied and filled annually: _____
6. If for ANY OTHER use: (a) Explain in detail _____

REMARKS This is one of five wells serving the system

List below the name and address of person to be contacted for additional information, if required.

The accompanying map is hereby declared a part of this application.

J. A. CATES, MAYOR
(Name)
P. O. BOX 425
(Address)
SOUTHAVEN, MS. 38671

J. A. Cates
(Signature)

Subscribed and sworn to before me this 2nd day of July, 1986, at SOUTHAVEN
County of DESOTO, Mississippi. My commission expires MY COMMISSION EXPIRES FEB. 16, 1987

Marlene Sprinkle Notary Public

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

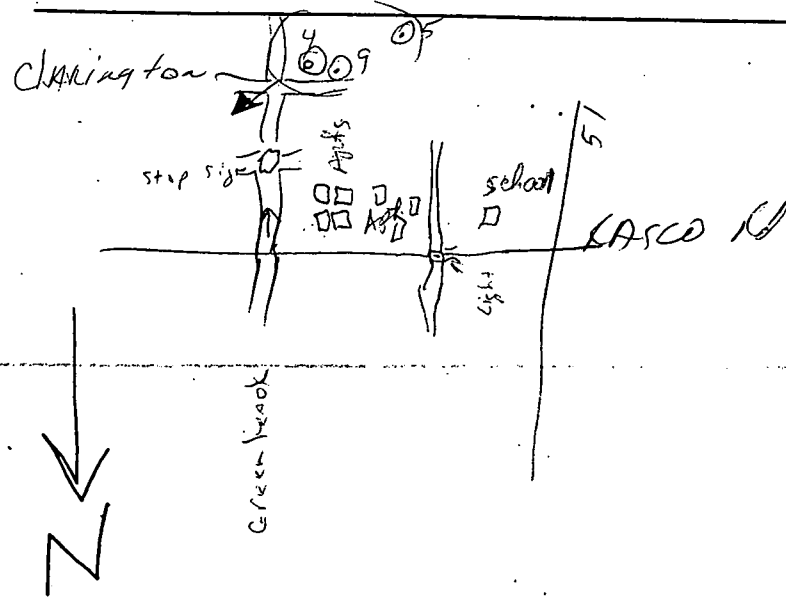
5HO + PEG
 USER NAME(S): L.A.R. DATE: 7-24-96
7/28/99
 UNIT DEQ #: 84090 FILE #: 8072816A
8072415A
 HEALTH DEPT. #: 170018-04 ELEV. 320
 USGS #: 491 C16 OLWR #: MS-GW-04126
 OWNER: City of Sporthaven / Greenbrook A. #2
 LOCATION: NW/NE/SE S 30 T 15 R 7W COUNTY: De Soto
 Pleasant Hill Quad.
 LOCATION DESCRIPTION: Well in fence NE corner.
East well

CASING DIA: 10" PUMP TYPE & SIZE: Turbine / 75

GPS FIELD LOCATION: LAT. 34° 58' 13.0" N LONG. 89° 58' 48.6" W

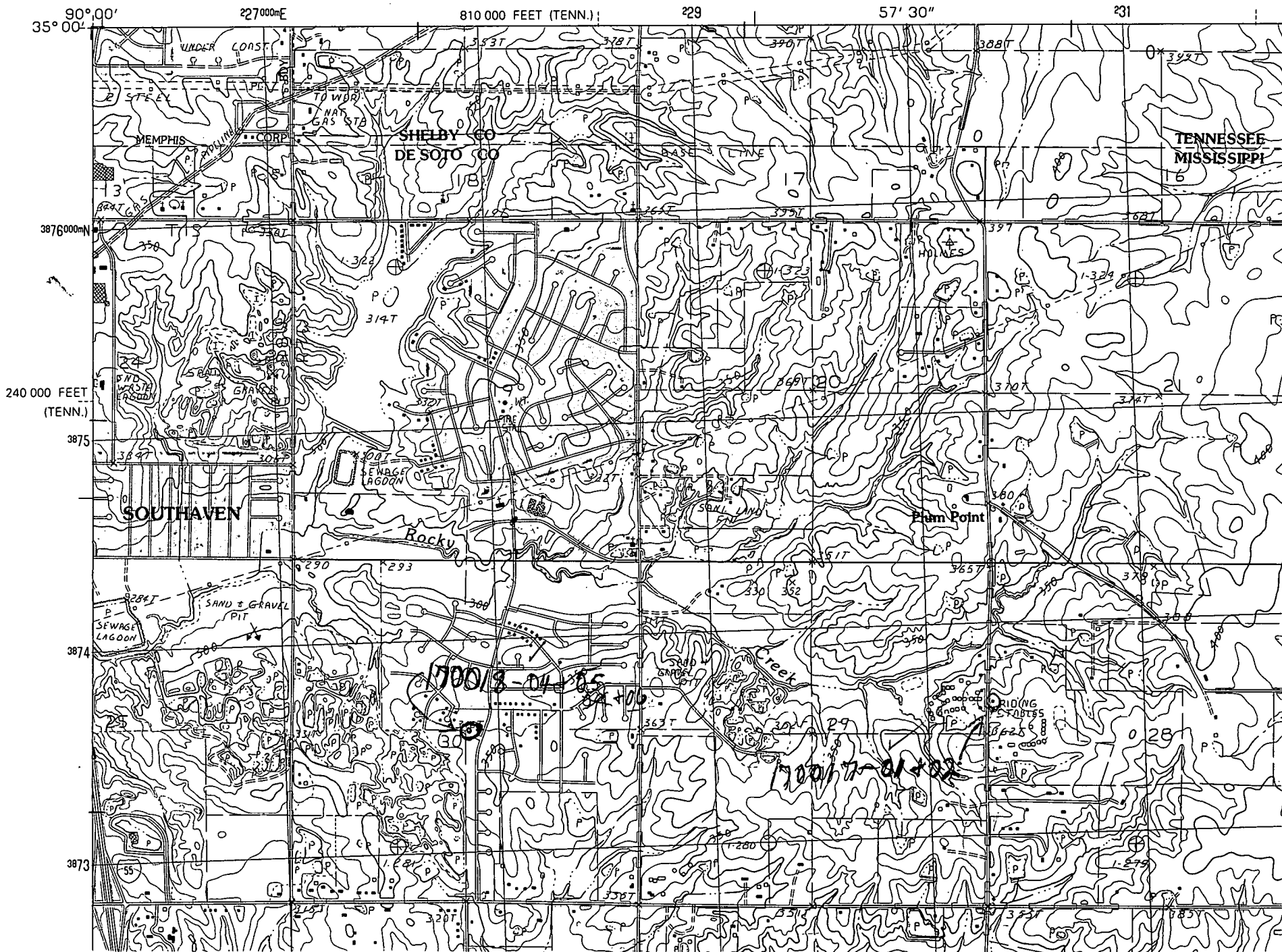
GPS CORRECTED LOCATION: LAT. 34.97022267 LONG. 89.98020958

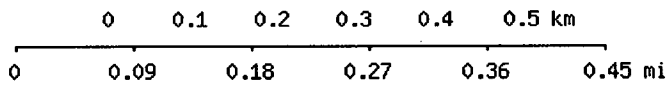
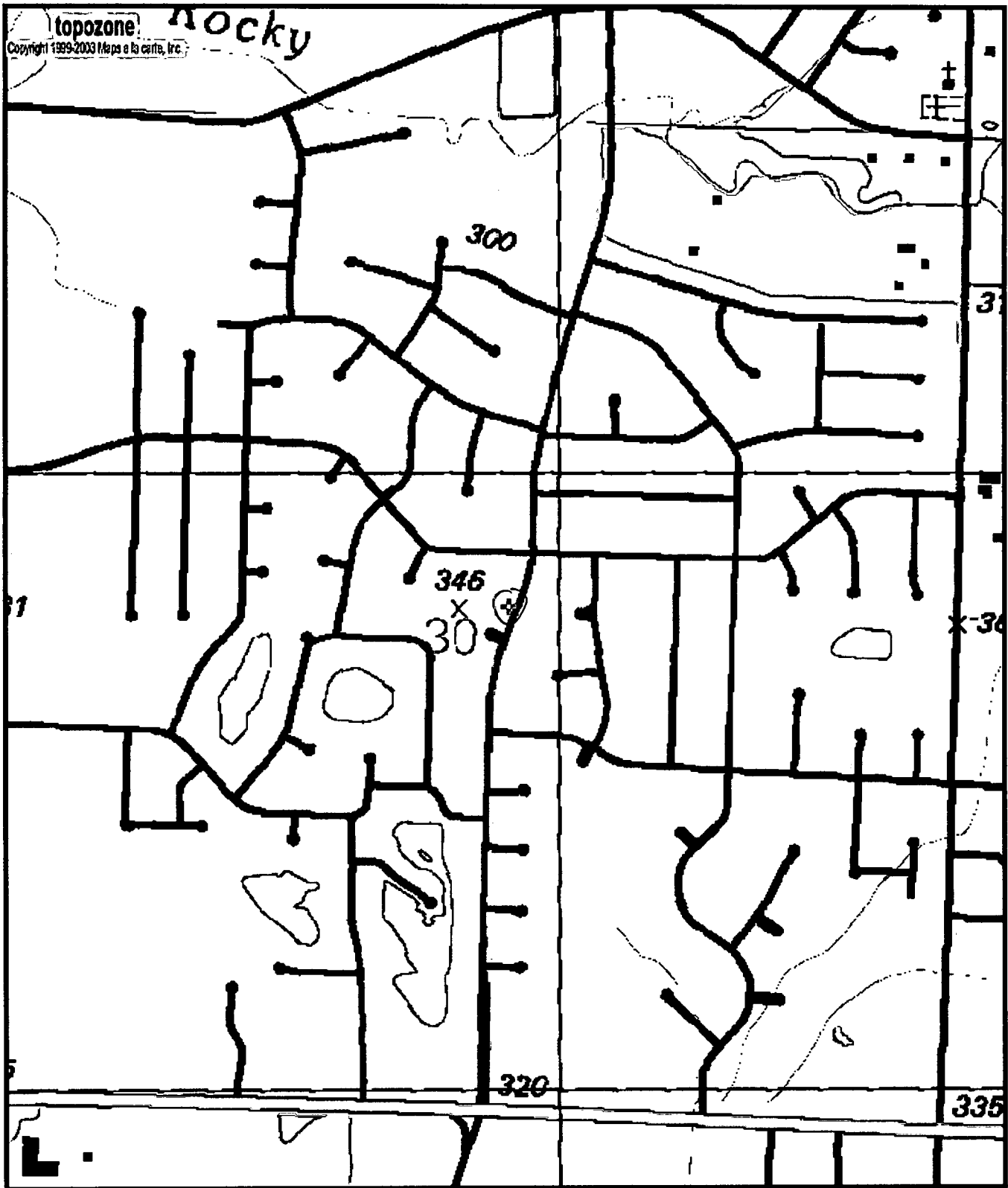
REMARKS: Go back S. on 51 to RASCO Rd turn L. at
light, SW under, under pass (SSN) cont. to
on Greenbrook Parkway .5 mi north of Goodman RD



34° 58' 13.0"
 89° 58' 48.6"
 8072415A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY





Map center is 34° 58' 13"N, 89° 58' 49"W (WGS84/NAD83)
Pleasant Hill quadrangle
 Projection is UTM Zone 16 NAD83 Datum

M=-0.034
 G=-1.71