

6/77 WTO

4125  
GW04215  
DON # 170018-05

TRANSMITTED FOR ADP  
12/77

Recorded by WTO  
Date 10/27/76

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

Well No. C15  
E-Log No. 32  
County DeSoto

Pleasant Hill Quad

Site ID 345817089584901 R=0\* T=A\* 2=W\*

GEN. SITE DATA

Data reliab. 3=C\*<sup>C</sup>U Report. agency 4=USGS\* Dist. 6=28\* 7=28\* Co. 8=033\*

Lat. Long./ 9=345817\* 10=0895849\* Well No. 12=C015\*

Location 13=SWSW S 30 T 01 S R 07 W\* Alt. 16=360\*

Hyd. Unit (OWDC) 20= Date 21=10/11/1976\* 346

Well use 23=W\* Water Use 24=P\* Hole depth 27=600\* Well depth 28=478\*

WL 30=129\* Date 31=05/12/1977\* Source 33=S\*

Status 273=Y\* Project No. 5=

OWNER

R=158\* T=A\* Date 159#08/15/1977\* Owner No. Well #2 (west Well)

Owner 161=SOUTHAVEN UTILITY\*

MU SPRT

FIELD OW

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=

CONSTR.

R=58\* T=A\* 59#1\* Date 60=08/15/1977\* Remarks

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

CASING

R=76\* T=A\* 59#1\* Top csng. 77# 0\* Bot. csng. 78=420\* Diam. 79# 18\*

R=76\* T=A\* 59#1\* Top csng. 77# 357\* Bot. csng. 78=418\* Diam. 79# 12\*

OPENINGS

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

Type 85=S\* Diam. 87=12\* Size 88=

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

Type 85= Diam. 87= Size 88=

YIELD

R=146\* T=A\* 147# 1\* Q 150=1043\* Q/S 272=

134 flows 146 pumped

LIFT

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

Date 38= 08/15/1977\* H.P. 46= 60.\*

LOGS

R=198\* T= A \* Log 199# D \* Top 200= 0.\* Bot 201= 600.\*

R=198\* T= A \* Log 199# E \* Top 200= 5.\* Bot 201= 587.\*

R=189\* T= A \* E Log No. 190# 032\* 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= 600.\*

Unit ID 93= 124SPRT \* Name of Unit

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= \* 103= \*

R=105\* T= A \* 99# 1 \* Test No. 106# \*

107= \* Transmissivity (gal/d)/ft

108= \* Hydraul. cond. (gal/d)/ft<sup>2</sup>

110= \* Storage coeff. Boundaries

R=121\* T= \* Yr Begin 122# \*

Water Level Data Collection (1)

Soils	
ie Sand & Gravel	60
ie Clay, Gray Gumbo	90
y Gumbo	120
i	250
aked Sand & Gumbo	270
y Gumbo	330
bo and Fine Sand	360
bo	390
d	400
d and Clay Streaks	480
	495
	500

Desoto  
C 15  
8/77

~~44125~~ SW  
4426  
04125

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

CODED  
Well #2  
WEST WELL

WATER WELL DRILLERS LOG

August 1977 19 Herndon Well & Supply, Inc. DeSoto County  
date well completed firm name county well located

LANDOWNER: Utility Dist.  
Southaven, Town of  
Southaven, MS  
(mailing address)

WELL LOCATION:  
sec 30 T1S N R 7 E  
S W  
Inside City of Southaven, MS  
(distance) (direction) (nearest town)

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) 129' <sup>4"</sup> below  
top of ground. ~~above~~  
(4) casing Steel 420  
(material) (depth)  
18  
(size) If telescope see back.  
(5) screen 60 418  
(length) (depth to top)  
12 Stainless Steel  
(size) (material)  
(6) pump 60 1043  
(HP) (yield gpm)  
Electric  
(type power)  
(7) electric log Yes  
(yes or no)  
USGS State out 76  
(organization running log)  
(8) how well bottom plugged 12 Inch  
BW CI

description of formations encountered	depth	
	from	to
Gray Clay	0	30
Red Sand	30	60
White Sand & Gravel	60	90
White Clay, Gray Gumbo	90	120
Gray Gumbo	120	250
Sand	250	270
Streaked Sand & Gumbo	270	330
Gray Gumbo	330	360
Gumbo and Fine Sand	360	390
Gumbo	390	400
Sand	400	480
Sand and Clay Streaks	480	495
Sand	495	585
Pea Gravel	585	600

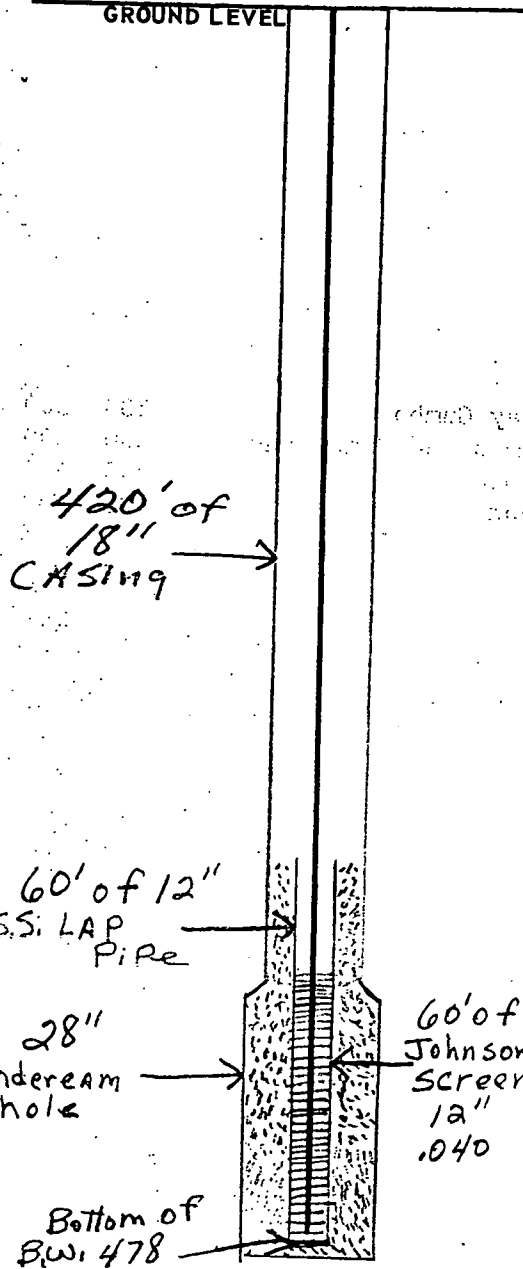
CODED

RECEIVED  
OCT 28 1977

MISS. BD. OF WATER COMM

DRILLERS REMARKS:

If well telescopes please sketch and show depths.




SECTION 30

Please indicate well location X.

ADDITIONAL INFORMATION

Multiple horizontal lines for writing additional information.

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

**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.

Issued: <u>11-24-87</u>	Expires: <u>10-28-2007</u>	Fee Paid: <u>X</u>	Permit No.
Lat. <u>34-58-14</u>	Long. <u>89-58-51</u>	Elev. <u>335</u>	USGS No. <u>C15</u>
Quad. <u>PLEASANT HILL</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-CW-04125

**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 NE 1/4 of Section 30, Township 01S, Range 07W, 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)**

1. **AQUIFER:** SPARTA SAND MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170018-05

2. Proposed work will begin on \_\_\_\_\_, 19\_\_\_\_, and will be completed by \_\_\_\_\_, 19\_\_\_\_  
If well has already been drilled, when was well completed (date)? AUGUST, 1977 Under whose name was well originally drilled (if known)? S/D DEVELOPER

3. Description of proposed or completed well:  
(a) DEPTH OF WELL: 478 feet. DRILLER: HERNDON WELL & SUPPLY  
(b) SURFACE CASING: Length 420 feet; Diameter 18 inches; Type STEEL  
(c) SCREEN: Length 60 feet; Diameter 12 inches; Type VERTICAL STAINLESS STEEL  
(d) PUMP: Type TURBINE; Size 8; Capacity 1000 gallons per minute; Setting depth 270 feet  
(e) POWER UNIT: Type ELECTRIC; Size 75 horsepower

4. **PERMITTED VOLUME:**  
(a) \_\_\_\_\_ acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute  
(b) 0.150 0.5 million gallons per day at a maximum rate of 1000 gallons per minute  
0.15 33 8-28-97 (CONTINUED ON BACK) 1000

**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 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. \_\_\_\_\_
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.

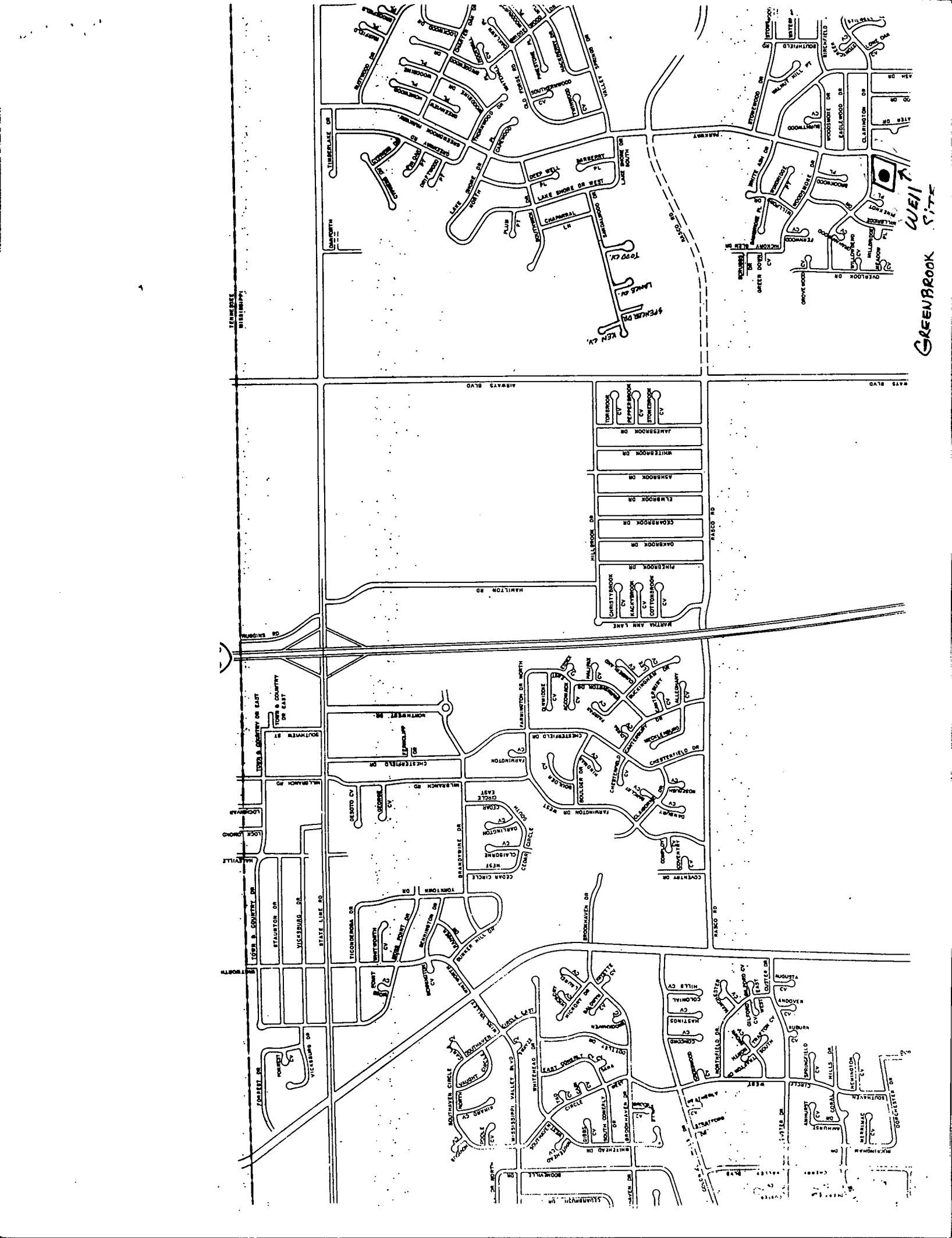
J. A. Cates  
(Signature)

Subscribed and sworn to before me this 21st day of May, 1999, at Southaven County of De Soto  
 NOTARY PUBLIC STATE OF MISSISSIPPI AT LARGE  
 MY COMMISSION EXPIRES: Apr. 6, 2001.  
 My commission expires CONFIRMED THRU NOTARY PUBLIC UNDERWRITERS  
Sherry W. Bennett Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

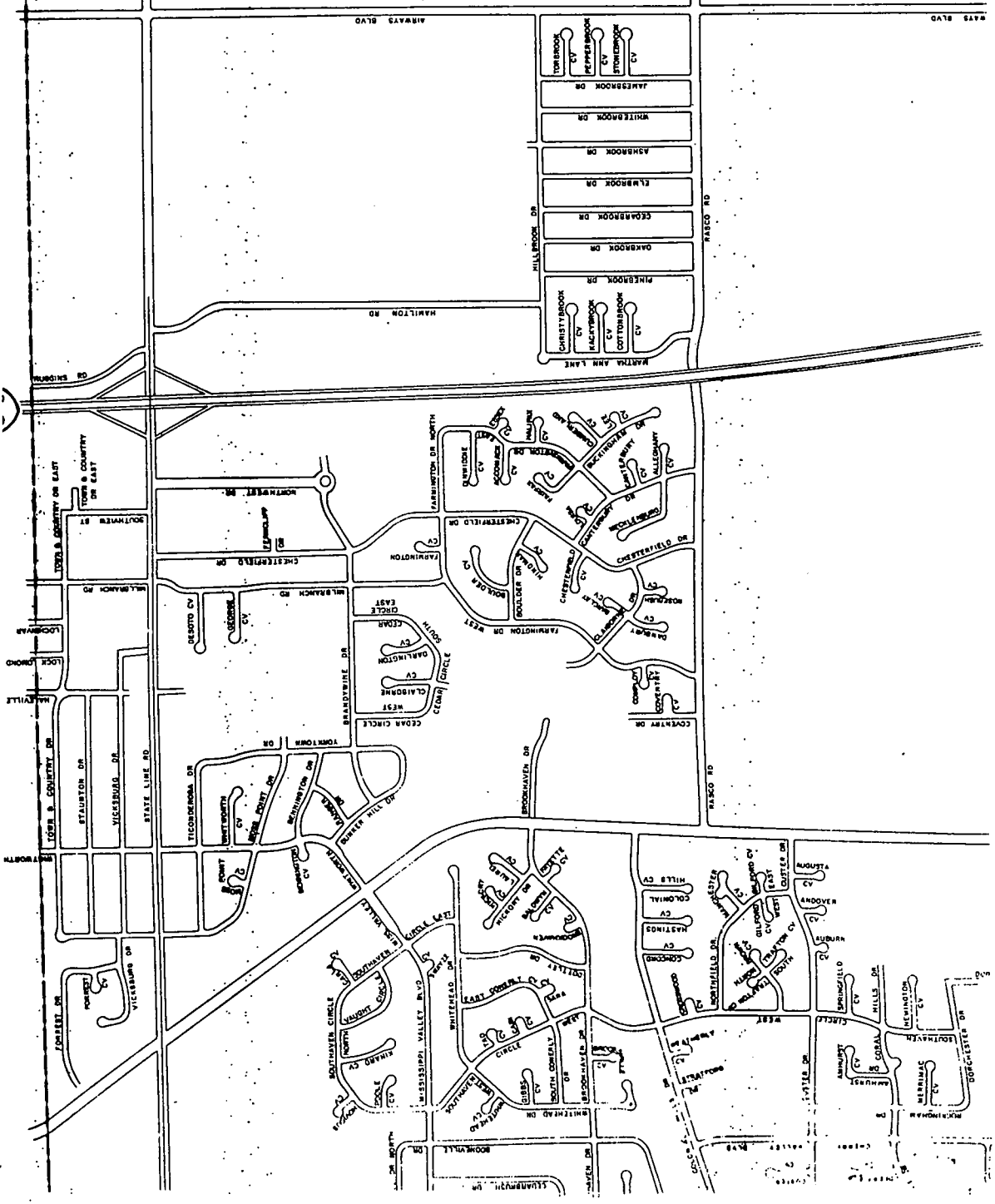
5HB + PEG  
USER NAME(S): LAK / DUB DATE: 7-24-96  
7/28/94  
UNIT DEQ #: 84090 FILE #: 80728160  
HEALTH DEPT. #: 170018-05 ELEV. 320 <sup>80724158</sup>  
USGS #: 492 C15 OLWR #: MS-GW-04125  
OWNER: City of Southaven / Greenbrook #2  
LOCATION: NW1/4 S 30 T 15 R 7W COUNTY: DeSoto  
Pleasant Hill Quad  
LOCATION DESCRIPTION: Well in far SW corner 250'  
W. SW. of Plat West well  
CASING DIA: 10" PUMP TYPE & SIZE: Turbine 160 75 NEW  
GPS FIELD LOCATION: LAT. 34-58-173N LONG. 89-58-864W  
GPS CORRECTED LOCATION: LAT. 34° 58' 12.9" LONG. 89° 58' 52.6"  
REMARKS: See well # 4 for location  
On Greenbrook Parkway 0.5 n. of Goodman RD



LEWISVILLE, MISSISSIPPI

GREEN BROOK SITE

GREEN BROOK SITE



TOPEKA & COUNTRY ON EAST  
TOWN & COUNTRY ON EAST

TOPEKA & COUNTRY ON EAST  
TOWN & COUNTRY ON EAST

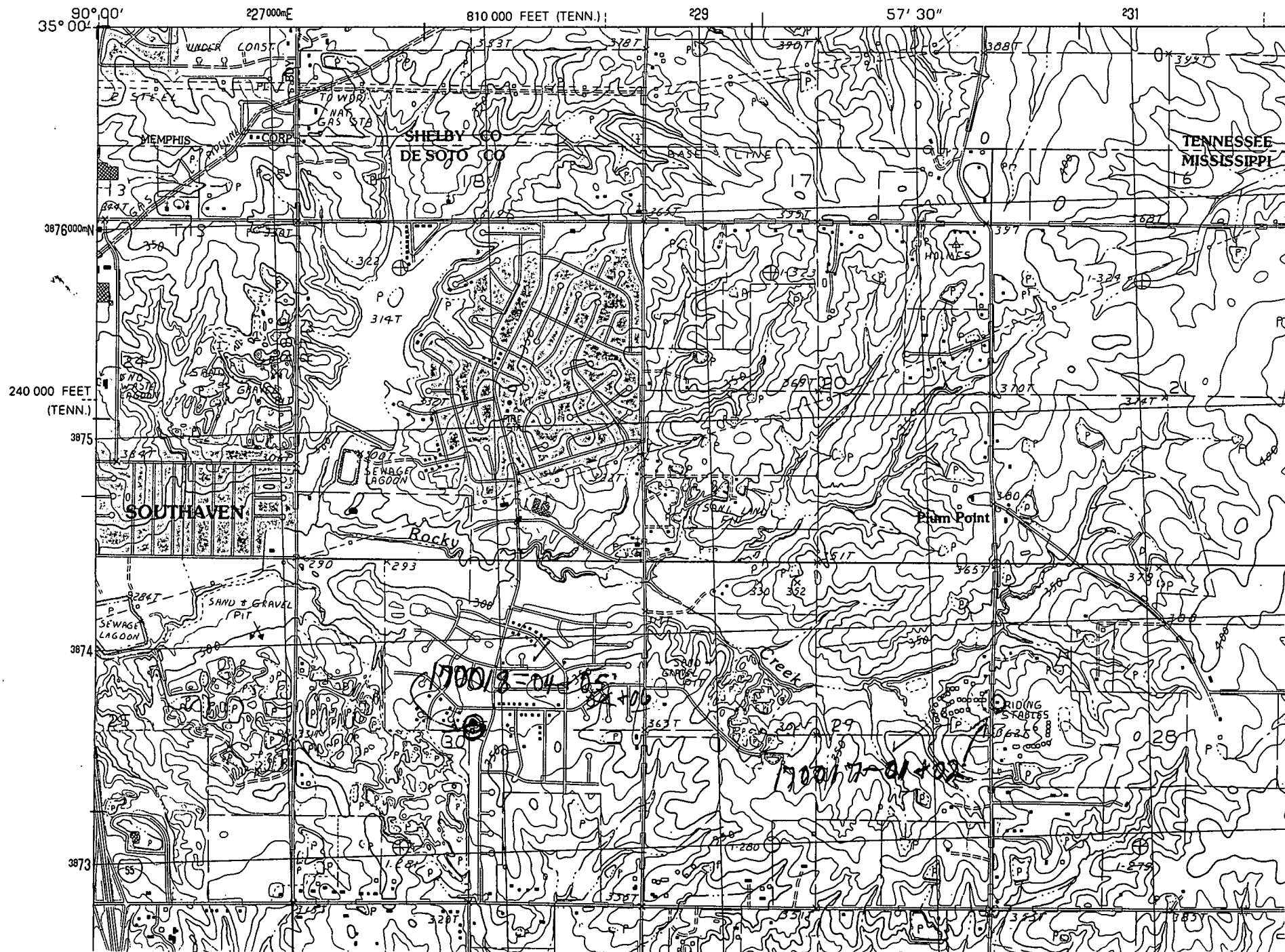
TOPEKA & COUNTRY ON EAST  
TOWN & COUNTRY ON EAST

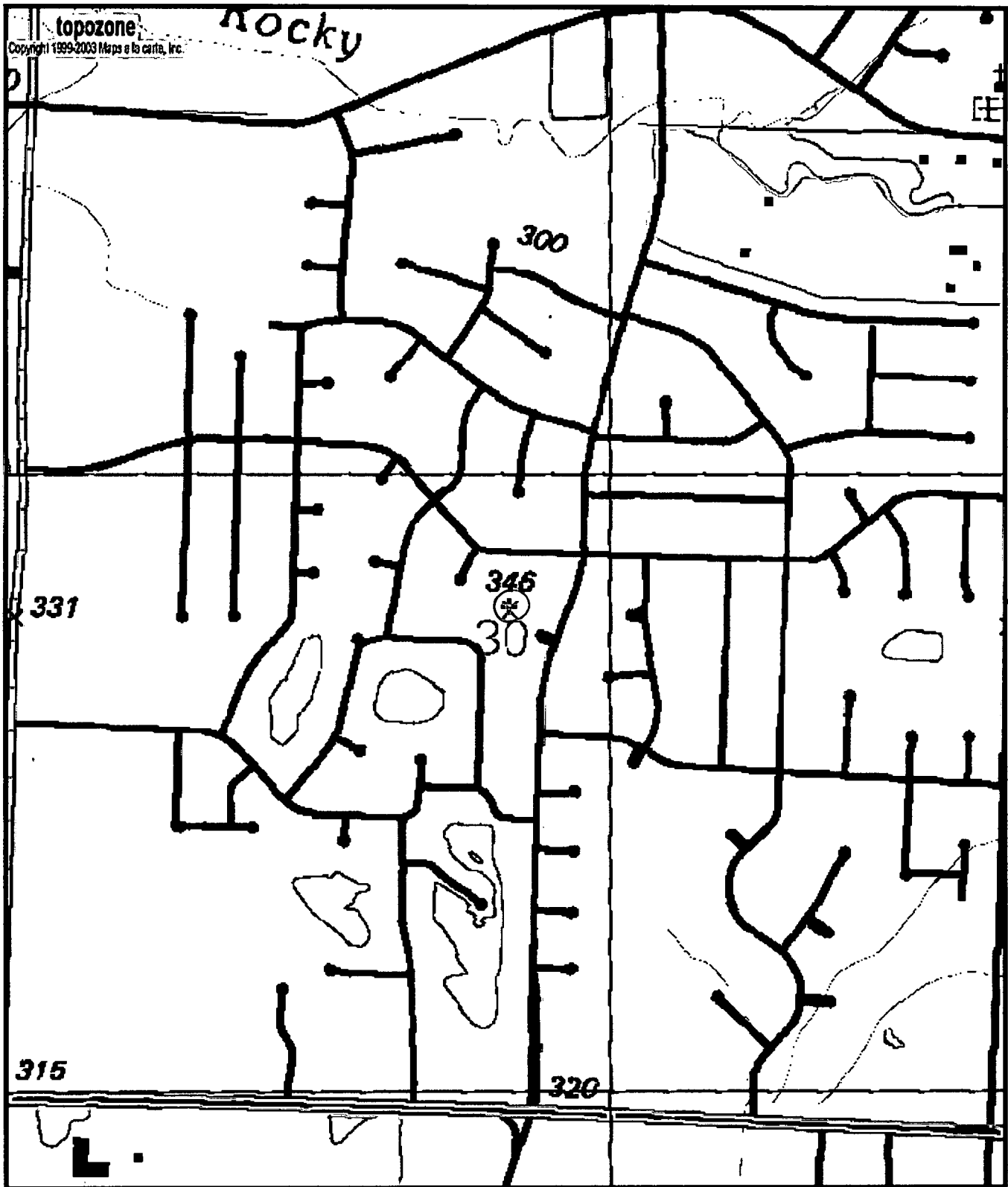
GREEN BROOK SITE

GREEN BROOK SITE



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY





0170018-05  
 Gw04(25)  
 C15

0 0.1 0.2 0.3 0.4 0.5 km  
 0 0.09 0.18 0.27 0.36 0.45 mi

Map center is 34° 58' 13"N, 89° 58' 52"W (WGS84/NAD83)  
**Pleasant Hill** quadrangle  
 Projection is UTM Zone 16 NAD83 Datum

M=-0.034  
 G=-1.71