

GW4127 DOH# 170017-01

245 625 089 570 001 Now ~~170018-07~~ DOH#

FORM 9-1642 (1-68)

Well No. C6

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR GEOLOGICAL SURVEY WATER RESOURCES DIVISION

MASTER CARD

Record by P.D. Source of data Power Date 4-71 Map Pleasant Hill

State 25 County (or town) Dessie 17

Latitude: 34582.5 N S Longitude: 0895700 Sequential number: 7

Lat-long accuracy: 4 T. 1 N R. 7 E Sec 28 SW, SW, NW

Local well number: C000CA2801507W Other number: B & H

Local use: 064 Owner or name: Pleasant Point W.A. Address: How Lake

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

Use of water: (A) Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec. (S) Stock, Instit, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other AB

Use of well: (A) Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed. W

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

Hyd. lab. data:

Qual. water data; type:

Freq. sampling: Pumpage inventory: period:

Aperture cards:

Log data: SPRT

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 367 ft Meas. rept accuracy 3

Depth cased; (first perf.): 326 ft Casing type: S; Diam. in 5

Finish: porous concrete, gravel w. (perf.), gravel w. (screen), horiz. gallery, open end, perf., screen, sd. pt., shored, open hole, other 5

Method Drilled: (A) rot, (B) air bored, (C) cable, (D) dug, (H) hyd jetted, (J) air percussion, (P) reverse, (R) rotary, (T) trenching, (V) driven, (W) wash, (X) drive, (Z) other 4

Date Drilled: 960 Pump intake setting: 373 ft

Driller: Jones - Cam name address

Lift (type): (A) air, (B) bucket, (C) cent., (J) multiple, (L) multiple, (M) multiple, (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, other 7 Deep Shallow

Power (type): diesel, elec, gas, gasoline, hand, gas, wind, H.P. 20 Trans. or meter no.

Descrip. MP 373 ft above LSD, Alt. MP

Alt. LSD: 360 Accuracy: (source) 3

Water Level: 153 ft above MP; 474 ft below LSD Accuracy: A

Date meas: 4-5-74 Yield: 250 gpm Method determined 61

Drawdown: 67 ft Accuracy: 63 Pumping period: 66 hrs

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

Sp. Conduct K x 10 73 Temp. 74 Date sampled 77 79

Taste, color, etc.

Note: now part of City of Southhaven system

TRANSMITTED FOR ADP

Well No.

C6

Well No. C 6

Latitude-longitude _____
d m s N S d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: 017 Section: _____

Drainage Basin: E Subbasin: 1:6:R

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) offshore, pediment, hillside, terrace, undulating, valley flat

MAJOR AQUIFER: system _____ series TE aquifer, formation, group S S

Lithology: U S Origin: 2 Aquifer Thickness: 91 ± ft
Length of well open to: _____ ft Depth to top of: 2:4:9 ft

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: 6" S.S.

Depth to consolidated rock: _____ ft Source of data: _____

Depth to basement: _____ ft Source of data: _____

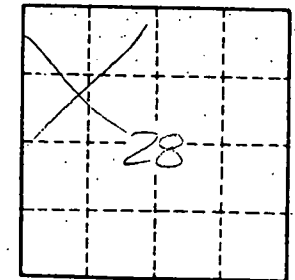
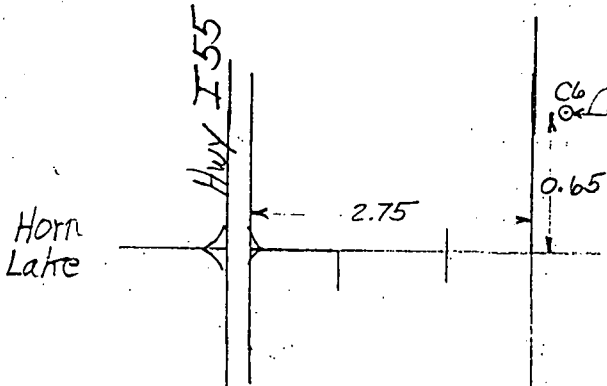
Surficial material: _____ Infiltration characteristics: _____

Coefficient Trans: _____ gpd/ft Coefficient Storage: _____

Coefficient Perm: _____ gpd/ft² Spec cap: _____ gpm/ft; Number of geologic cards: _____

*near water level
A-5-74 @ 0950
153' below lsd*

9,000 gallon pressure storage tank



*water level by driller
147' below lsd 12-1966*

Well No. C 6

De Soto
 C 6
 12-66
 4127

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

CODED

WATER WELL DRILLERS LOG

12-1-1966 Layne-Central Co. DeSoto
 date well completed firm name county well located

LANDOWNER	Description of formations encountered	from	to
Plum Point Water Assn. Horn Lake, Mississippi	Clay		30
	sand-gravel	30	60
(mailing address)	rock	1	61
	gravel	10	71
WELL LOCATION: sec. 28 T 1 N R 7 E	clay	19	90
	sandy clay		134
	clay	16	150
miles near Plum Point	soft sandy clay	16	166
(distance) (direction) (nearest town)	sandy clay	7	173
WELL PURPOSE: Municipal	sand	7	180
(home, irrigation, municipal, industrial)	pk. sand	23	203
WELL COMPLETION DATA:	pk. sand	23	226
(1) diameter (inches) 8"	pk. sand	14	240
(2) total depth (feet) 361'	fine sand sandy	9	249
(3) static water level (feet) 147 below top of ground.	fine sand sts./clay	23	272
(4) casing S. T&C, 323'	pk. sand fine sand	23	295
(material) (depth)	pk. sand	22	317
8" if telescope see back. (size)	pk. sand	23	340
(5) screen 35' 326'	pk. sand	23	363
(length) (depth to top)			
6" s. steel wire wrapped (size) (material)			
(6) pump 20 250 (HP) (yield gpm)			
electric (type power)			
(7) electric log NO (yes or no)			
(organization running log)			
(8) how well bottom plugged			
DRILLERS REMARKS:			

CODED

**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

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

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>34-58-23</u>	Long. <u>89-57-02</u>	Elev. <u>350</u>	USGS No. <u>C6</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-GW-04127

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.)

PO 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)

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 28, 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.: 170018-07

2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____.

If well has already been drilled, when was well completed (date)? 12-1, 1966. Under whose name was well originally drilled (if known)? PLUM POINT WATER ASSOCIATION

3. Description of proposed or completed well:

(a) DEPTH OF WELL: 361 feet. DRILLER: LAYNE CENTRAL COMPANY

(b) SURFACE CASING: Length 323 feet; Diameter 8 inches; Type STEEL

(c) SCREEN: Length 35 feet; Diameter 6 inches; Type STAINLESS STEEL WRAP

(d) PUMP: Type PRHC; Size 8"; Capacity 250 gallons per minute; Setting depth 226 feet

(e) POWER UNIT: Type ELECTRIC; Size 20 horsepower

4. PERMITTED VOLUME :

(a) _____ acre-feet per year at a maximum rate of _____ gallons per minute

(b) 0.10-15 million gallons per day at a maximum rate of 250 gallons per minute

D.T. BB
8-27-97

(CONTINUED ON BACK)

250

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 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? 3.4 MGD 2000 3.6 MGD 2005 3.9 MGD 2010 4.2 MGD 2020
(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:** THIS WELL HAS BEEN INCORPORATED INTO THE CITY OF SOUTHAVEN SYSTEM

List below the person to be contacted for additional information if required.

J.A. CATES
(Name)

PO 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)

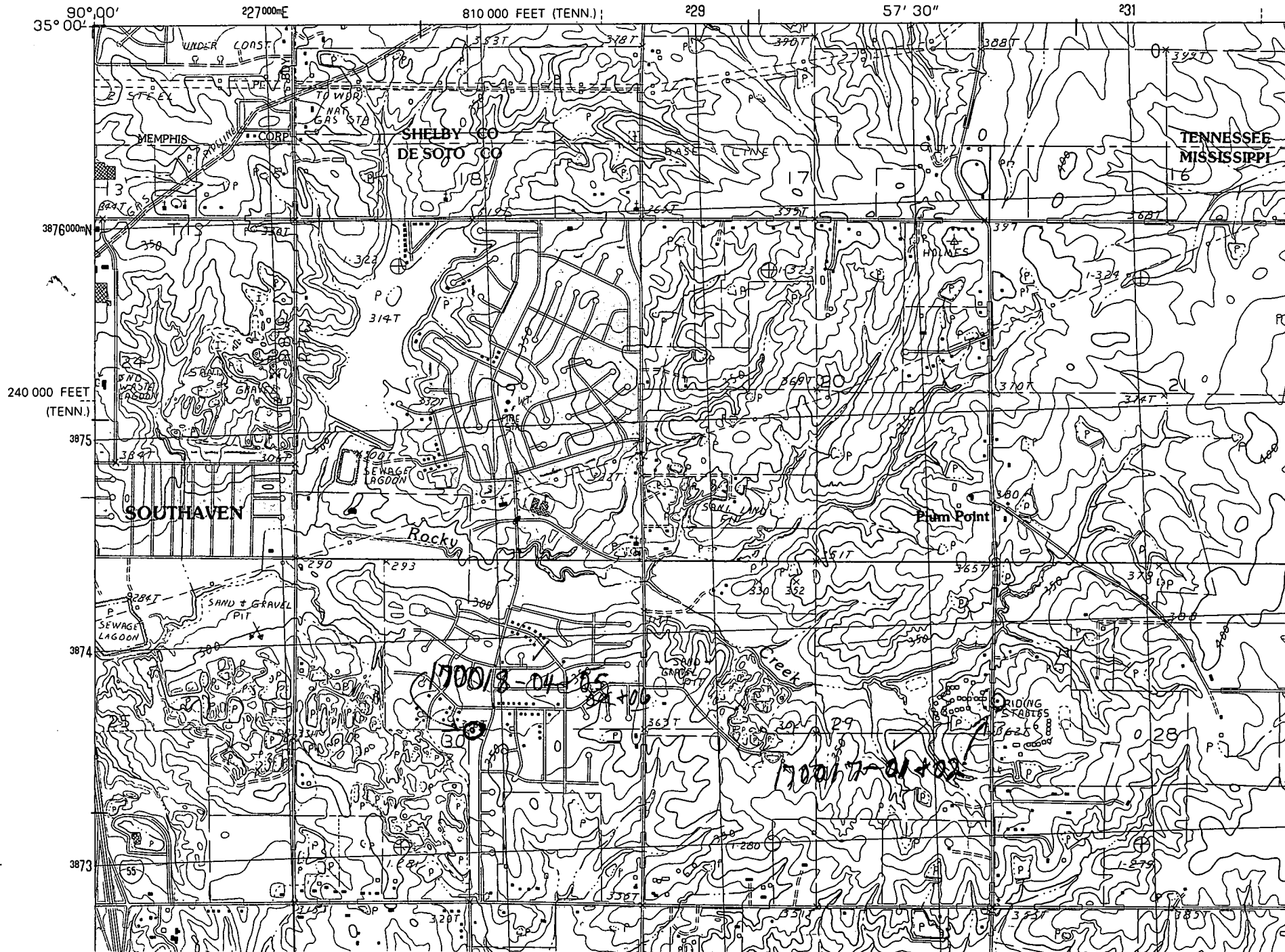
Subscribed and sworn to before me this 21st day of May, 1997, at Southaven County of De Soto
NOTARY PUBLIC STATE OF MISSISSIPPI
MY COMMISSION EXPIRES: Apr. 6, 2001.
My commission expires BONDED THRU NOTARY PUBLIC UNDERWRITERS. Sherry W. Bennett Notary Public.

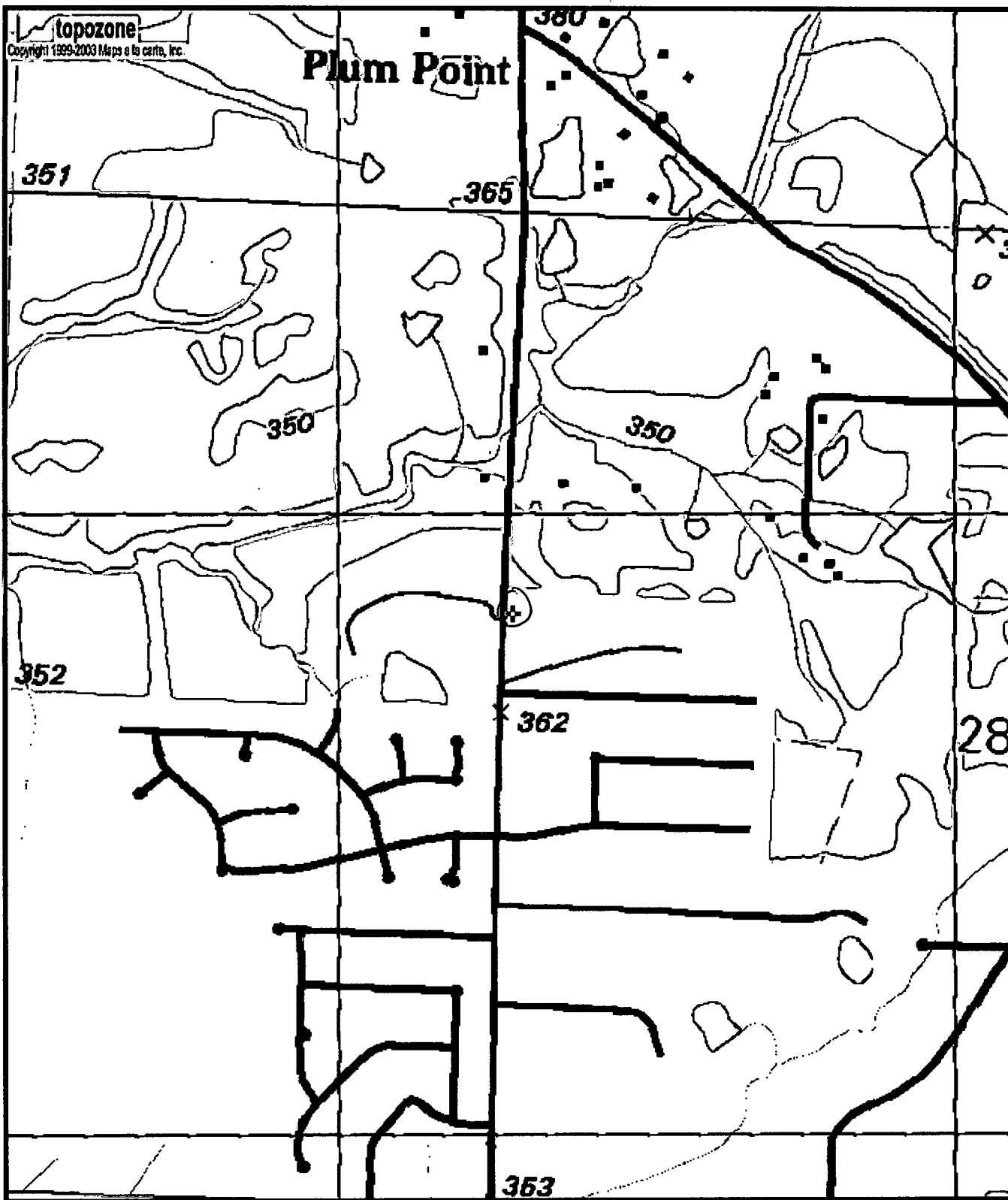
DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

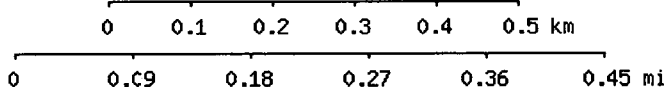
USER NAME(S): SHB4PEG LAL/DRB DATE: 7-24-96
7/27/94
UNIT DEQ #: 84090 FILE #: ~~80727-205~~
00724 148
HEALTH DEPT. #: 170017-01 ELEV. 362
USGS #: 485 C-6 OLWR #: MS-GW-04127
OWNER: CITY of SOUTHAVEN, PLUM POINT, WA.
LOCATION: SW/SW/NW S 28 T 15 R 7W COUNTY: DE SOTO
Pleasant Hill Quad.
LOCATION DESCRIPTION: WEST END OF PLANT INSIDE SITE
CASING DIA: 6" PUMP TYPE & SIZE: SUBMERSIBLE
GPS FIELD LOCATION: LAT. ~~34.582594~~ LONG. ~~89.57262W~~
34°58'11.4" 89°57'15.3"
GPS CORRECTED LOCATION: LAT. 34.97131366 LONG. 89.95428521
REMARKS: SEE #2 FOR LOCATION

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY





0170018-07
 GW04127
 Cp



Map center is 34° 58' 17"N, 89° 57' 15"W (WGS84/NAD83)
Pleasant Hill quadrangle
 Projection is UTM Zone 16 NAD83 Datum

