

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

OCT 20 1978

In Hernando

MASTER CARD

Record by MAH Source of data BOWC Date 8/14/75 Map Hernando

State 28 County (or town) De Soto 17

Latitude: 34 59 10 N Longitude: 089 01 20 Sequential number: 1

Lat-long accuracy: 5 T 3 S R 7 W Sec 18 SW SE NW NE

Local well number: 4054 1803507W Other number: 8 & M

Local use: 213 Owner or name: HERNANDO Address: Hernando, MS.

Ownership: (C) County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist M

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

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: SPRT

Log data: D

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 325 ft Meas. rept 3

Depth cased: (first perf.) 275 ft Casing type: Steel ; Diam. 10 in

Finish: porous concrete, gravel w. (perf.), gravel w. (screen), horiz. gallery, open end, other S

Method Drilled: (A) air bored, (B) cable, (C) dug, (D) hyd jetted, (E) rot., (F) air reverse, (G) percussive, (H) rotary, (I) trenching, (J) driven, (K) wash, (L) other A

Date Drilled: 4/7/75 975 Pump intake setting: 36 ft 38

Driller: Bob Smith Well Drlg.

Lift (type): (A) air, (B) bucket, (C) cent, (D) jet, (E) multiple, (F) multiple, (G) none, (H) piston, (I) rot, (J) submerg, (K) turb, (L) other T Deep  Shallow

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 40  Trans. or meter no. 41

Descrip. MP 396 ft above below LSD, Alt. MP

Alt. LSD: 360 Accuracy: (source)

Water Level: 125 ft above below MP; Ft below LSD Accuracy: D

Date meas: 475 Yield: 500 gpm Method determined

Drawdown: 62 ft Accuracy:  Pumping period: 66 hrs 68

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

Sp. Conduct K x 10 73 Temp. °F 74 76 Date sampled 77 79

Taste, color, etc.

Well No.

654

Well No. LS4

Latitude-longitude \_\_\_\_\_  
N  
S  
d m s d m s

**HYDROGEOLOGIC CARD**

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

Drainage Basin: D Subbasin: 15E

Topo of well site: (D) (C) (E) (P) (H) (K) (L) \_\_\_\_\_  
(O) (P) (S) (T) (U) (V) \_\_\_\_\_  
offshore, pediment, hillside, terrace; undulating, valley flat

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

Lithology: \_\_\_\_\_ Origin: \_\_\_\_\_ Aquifer Thickness: \_\_\_\_\_ ft

Length of well open to: \_\_\_\_\_ ft 164 Depth to top of: \_\_\_\_\_ ft 50 161

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: \_\_\_\_\_

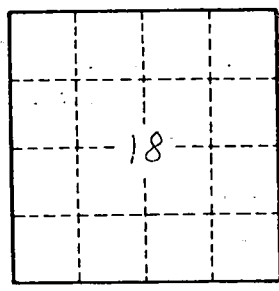
Depth to consolidated rock: \_\_\_\_\_ ft \_\_\_\_\_ Source of data: \_\_\_\_\_

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

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

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

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



Well No. LS4

UP-DATED \_\_\_\_\_

De Soto  
 L. 54  
 4-17-75

61871

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

CODE

WATER WELL DRILLERS LOG

4-17-1975 date well completed  
 Bel Smith Well Drilling Co. De Soto firm name  
 county well located

LANDOWNER: John J. Hernandez  
 description of formations encountered

Hernandez, Miss.  
 (mailing address)

WELL LOCATION:

sec. 18 T 3 N R 7 E 156  
 (distance) miles (direction) (nearest town)

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

WELL COMPLETION DATA:

- (1) diameter (inches) 10"
- (2) total depth (feet) 325'
- (3) static water level (feet) \_\_\_\_\_ below above top of ground.
- (4) casing Steel 325'  
 (material) (depth)  
 (size) If telescope see back.
- (5) screen 50' \_\_\_\_\_  
 (length) (depth to top)  
6" Stainless Steel  
 (size) (material)
- (6) pump 40 500  
 (HP) (yield gpm)  
Electric  
 (type power)
- (7) electric log yes  
 (yes or no)  
USGS  
 (organization running log)
- (8) how well bottom plugged plugged

description of formations encountered	from	to
Red sand & gravel	0'	17'
Rock	17'	19'
Fine White sand	19'	47'
Blue Clay	47'	62'
Gray Sand	62'	65'
Blue Clay	65'	96'
Gray Sand	96'	102'
Rock	102'	103'
Blue Clay	103'	132'
Rock	132'	133'
Blue Clay	133'	161'
Medium White sand	161'	230'
Med. to coarse white sand	230'	250'
Coarse white sand	250'	310'
Fine White Sand	310'	325'

DRILLERS REMARKS:

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

RECEIVED FEB 12 1996

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.

4-23-96 AGN.

FORM OF Mississippi Department of Environmental Quality

Issued: 3-25-86	Expires: 3-25-2006	Fee Paid:	Permit No. Office of Land & Water Resources
Lat. 34°-49'-35" 40	Long. 89°-58'-41" 41	Elev. 375	USGS No.
Quad. Hernando	ASCS Farm No.	STAC.	MSDOH No.
Aquifer: SPRT	Tract No.		Basin No.
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): NEW PERMIT RENEWAL PERMIT NO. 13-GW-01871

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 Hernando 64-6000440  
(Name) (SSN or Tax ID No.)  
190 Commerce Street  
(Address)  
Hernando MS 38632 (601) 429-9092  
(City) (State & Zip) (Telephone No.)

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

NO MAP

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 18, Township 3 S, Range 7 W, 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. Well No. 1712005 on same 2 acre lot.  
Both wells are used for municipal water supply.

SECTION B (to be completed for GROUNDWATER SOURCE)

1. AQUIFER: Memphis SPRT MISSISSIPPI DEPARTMENT OF HEALTH NO.: No. 17120054  
2. Proposed work will begin on \_\_\_\_\_, 19\_\_\_\_, and will be completed by \_\_\_\_\_, 19\_\_\_\_.  
If well has already been drilled, when was well completed (date)? 4/17, 1975. Under whose name was well originally drilled (if known)? Bob Smith Well Supply, Hernando, MS  
3. Description of proposed or completed well:  
(a) DEPTH OF WELL: 312 feet. DRILLER: Bob Smith Well Supply  
(b) SURFACE CASING: Length 254 feet; Diameter 10 inches; Type coated steel  
(c) SCREEN: Length 52 feet; Diameter 6-5/8 inches; Type stainless steel  
(d) PUMP: Type unknown; Size \_\_\_\_\_; Capacity 500 gallons per minute; Setting depth \_\_\_\_\_ feet  
(e) POWER UNIT: Type electric; Size \_\_\_\_\_ horsepower  
4. PERMITTED VOLUME:  
(a) \_\_\_\_\_ million gallons per year at a maximum rate of \_\_\_\_\_ gallons per minute  
(b) 0.25, 22 million gallons per day at a maximum rate of 500 gallons per minute

2673

(CONTINUED ON BACK)

500

**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 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 \_\_\_\_\_ or (b) The number of connections is 1850  
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>0.85</u>	<u>2001</u>	<u>1.00</u>	<u>2006</u>	<u>1.15</u>	<u>2011</u>	<u>1.30</u>	<u>2016</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:** The above information is all that is available. The consumption figures is for all three wells in city.

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

Daniel L. Murphy  
(Name)  
P.O. Box 587  
(Address)  
Hernando, MS 38632  
(City, State, Zip)  
601-429-1312  
(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.

  
(Signature)

Subscribed and sworn to before me this 31<sup>st</sup> day of Jan., 1996, at Hernando County of De Soto  
My commission expires 6-30-97; Jessie Liley Notary Public.

Original sheet missing!  
12/14/2000

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): SAB + PEG DATE: 7/23/96

UNIT DEQ #: \_\_\_\_\_ FILE #: B072321C

HEALTH DEPT. #: 170009-02 ELEV. \_\_\_\_\_

USGS #: \* L54 \* OLWR #: GW1871

OWNER: Town of Hernando QUAD: Hernando

LOCATION: \_\_\_\_\_ S 18 T 3S R 7W COUNTY: DeSoto

LOCATION DESCRIPTION: \_\_\_\_\_

CASING DIA: \_\_\_\_\_ PUMP TYPE & SIZE: \_\_\_\_\_

GPS FIELD LOCATION: LAT. 34°49'39.3 LONG. 89°58'37.7"

GPS CORRECTED LOCATION: LAT. 34.82785721 LONG. 89.97845809

REMARKS: \_\_\_\_\_

\* Note: -02 originally matched L2,  
L2 is no longer used & I think  
they have moved the tag to L54.  
That, or L54 has never been given  
a tag.

# Water Well Field Data Form

USGS Well No. L-2 County Desoto

T \_\_\_\_\_ R \_\_\_\_\_ S \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_

Local Well Name \_\_\_\_\_

Owner Hernando W/A

Date 6/23 1994 Party JG SRB+PEG  
7/23 96

OLWR Permit No. MS-GW- \_\_\_\_\_ Quad Map Hernando ✓

Health Department (PWS) Tag No. 170009-025  
8072321C

GPS File No. D062319A Elevation 390 ft.

Measuring Point \_\_\_\_\_

Previous Water Level 160.77 ft. Date 10/30/89

Tape down no.	1	2	3	4
Time	2:56			
Held				
Wet				
Difference				
MP Correction				
Water Level				
WL corr. to MSL				

Note: Provide sketch of location and/or measuring point on back if necessary.  
 Remarks: ⊙ Corrected GPS = 34.82785721 89.97845809  
~~34.81819948 89.97681789~~

34° 49' 39.3  
~~Lat - 34 49 39.9~~  
~~Long - 89 58 42.7~~  
89° 58' 37.7"

W-01871  
01872  
01873

Mississippi Department of Environmental Quality  
Office of Land and Water Resources

Well Data Form

Name of Water System or Facility CITY OF HERNANDO Date \_\_\_\_\_  
Number of wells 3 PWS ID 0 1 7 0 0 0 9 Sheet No. 1 of 1

PWS Well ID No. 0 1 7 0 0 0 9 - 0 1 Date of Construction 1954

Well Depth 345 ft. Casing diam. 8 in. Type pump TURBINE *GW-1873*  
Active  Unused \_\_\_\_\_ Standby \_\_\_\_\_ Abandoned \_\_\_\_\_ Metered  yes \_\_\_\_\_ no  
Pumping Rate: 500 gpm. Average time of daily operation: 3 hrs.  
Location Description BY INTERSTATE 55

Remarks \_\_\_\_\_

PWS Well ID No. 0 1 7 0 0 0 9 - 0 2 Date of Construction 1960

Well Depth 300 ft. Casing diam. 10 in. Type pump TURBINE *GW-1874*  
Active  Unused \_\_\_\_\_ Standby \_\_\_\_\_ Abandoned \_\_\_\_\_ Metered  yes \_\_\_\_\_ no  
Pumping Rate: 450 gpm. Average time of daily operation: 2 hrs.  
Location Description UNION ST

Remarks \_\_\_\_\_

PWS Well ID No. 0 1 7 0 0 0 9 - 0 3 Date of Construction 1968

Well Depth 300 ft. Casing diam. 10 in. Type pump TURBINE *GW-1875*  
Active  Unused \_\_\_\_\_ Standby \_\_\_\_\_ Abandoned \_\_\_\_\_ Metered  yes \_\_\_\_\_ no  
Pumping Rate: 800 gpm. Average time of daily operation: 4 hrs.  
Location Description BY INTERSTATE 55

Remarks \_\_\_\_\_

PWS Well ID No. \_\_\_\_\_ - \_\_\_\_\_ Date of Construction \_\_\_\_\_

Well Depth \_\_\_\_\_ ft. Casing diam. \_\_\_\_\_ in. Type pump \_\_\_\_\_  
Active \_\_\_\_\_ Unused \_\_\_\_\_ Standby \_\_\_\_\_ Abandoned \_\_\_\_\_ Metered \_\_\_\_\_ yes \_\_\_\_\_ no  
Pumping Rate: \_\_\_\_\_ gpm. Average time of daily operation: \_\_\_\_\_ hrs.  
Location Description \_\_\_\_\_

Remarks \_\_\_\_\_

PWS Well ID No. \_\_\_\_\_ - \_\_\_\_\_ Date of Construction \_\_\_\_\_

Well Depth \_\_\_\_\_ ft. Casing diam. \_\_\_\_\_ in. Type pump \_\_\_\_\_  
Active \_\_\_\_\_ Unused \_\_\_\_\_ Standby \_\_\_\_\_ Abandoned \_\_\_\_\_ Metered \_\_\_\_\_ yes \_\_\_\_\_ no  
Pumping Rate \_\_\_\_\_ gpm. Average time of daily operation \_\_\_\_\_ hrs.  
Location Description \_\_\_\_\_

Remarks \_\_\_\_\_



Mississippi Department Of Environmental Quality  
Office of Land and Water Resources

Water Supplier Information Sheet

Name of Water System CITY OF HERNANDO  
Mailing Address P O BOX 362  
City HERNANDO County DESOTO Zip 38632  
Health Department (Public Water Supply) ID Number 0170009

Name of Owner ED GALE, MAYOR  
Address 475 W COMMERCE ST  
City HERNANDO County DESOTO Zip 38632

Water Superintendent/Operator

Name HOWARD BROWN  
Address 2195 THOUSAND OAKS DR  
City HERNANDO Zip 38632  
Work Phone 429-9509 Home Phone 429-2110  
MSDH Certification Number C02111

Secretary/Treasurer/Bookkeeper

Name JANNETT RILEY  
Address 475 W COMMERCE ST  
Work Phone 429-9092 Home Phone \_\_\_\_\_

System Information

How many usable sources of water (wells for groundwater systems, purchase points if buying water, etc.) does this system have? Wells 3 Purchase Points 0  
Others (explain) \_\_\_\_\_

How many active connections on this system? 1437

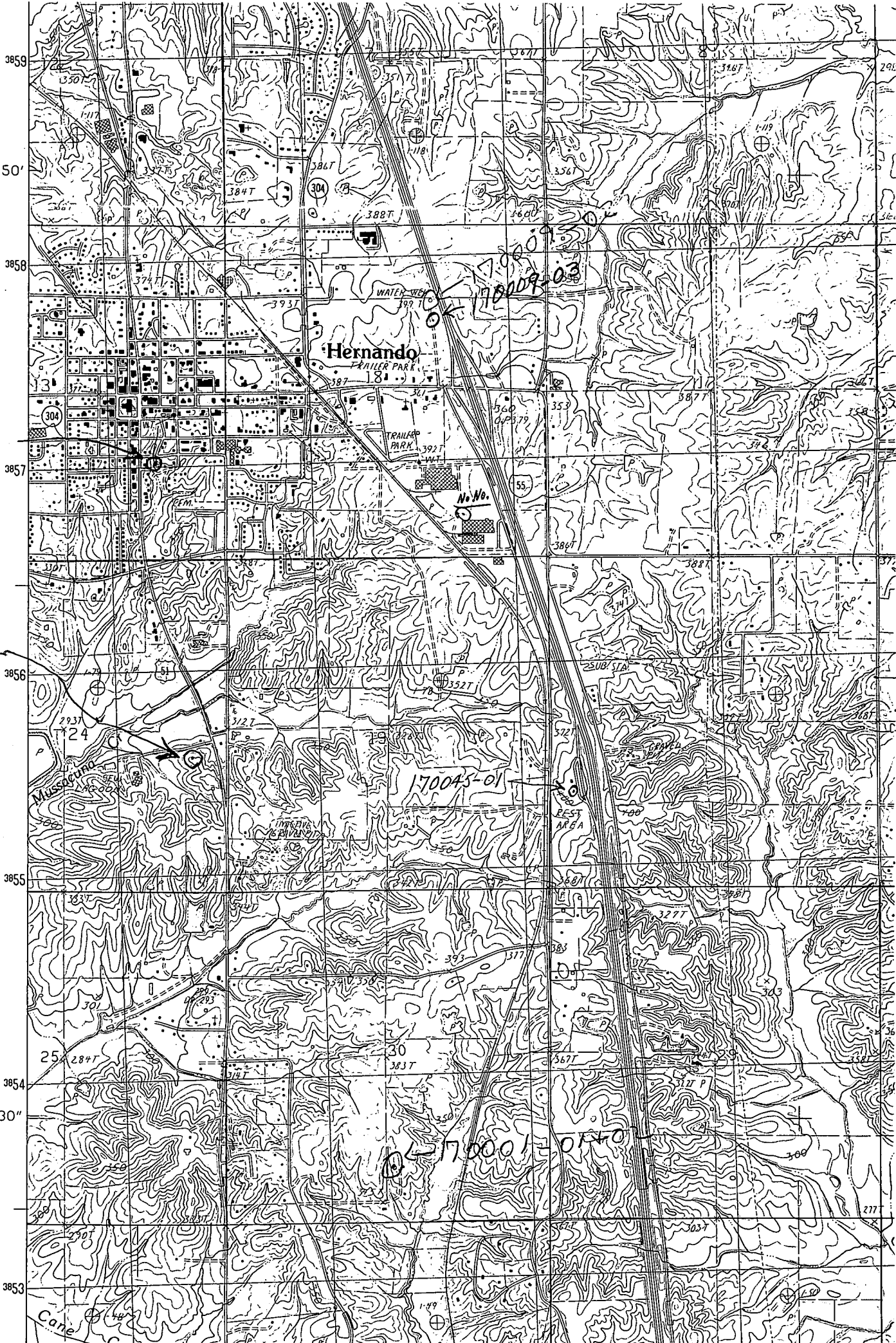
How many people does this system serve? 4320

How many gallons of water did this system:  
pump during the 1993 calendar year (Jan - Dec)? 105,361,600 gal.  
sell during the 1993 calendar year (Jan - Dec)? 0 gal.

How many gallons of water did this system purchase during the 1993 calendar year (Jan - Dec)?  
0 gal. From whom? \_\_\_\_\_

Name of individual completing this form: ROBYN PRESSLEY  
Phone Number: Work 429-9509 Home \_\_\_\_\_

Complete this form once for each Water System

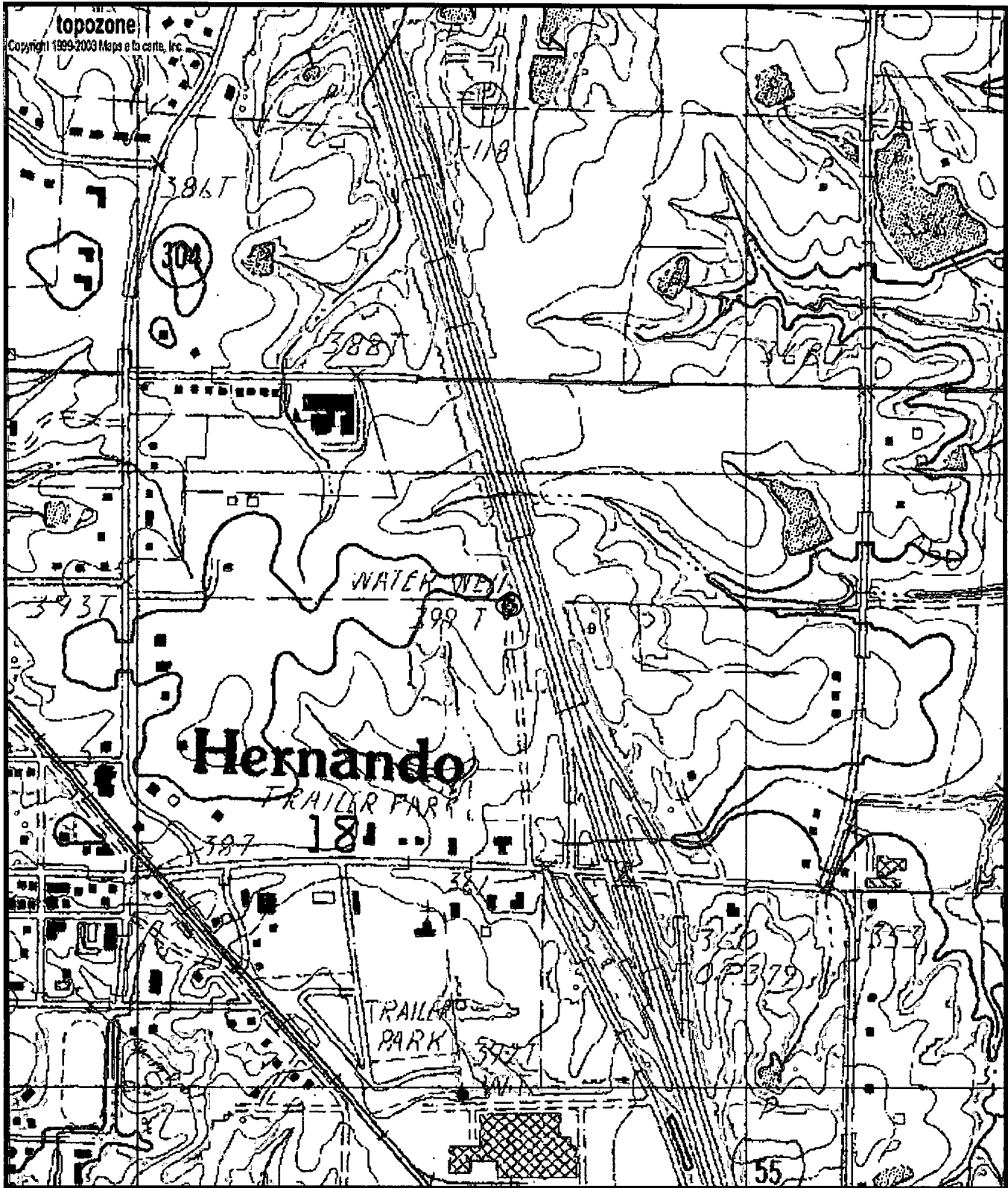


70009-01  
x Cr. Bottom

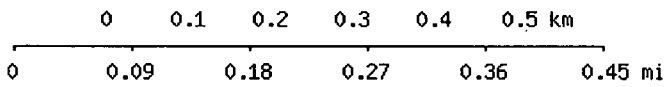
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0170009-02  
G601871  
L54



Map center is 34° 49' 40"N, 89° 58' 43"W (WGS84/NAD83)

**Hernando** quadrangle

Projection is UTM Zone 16 NAD83 Datum

↑  
M=-0.019  
G=-1.703