

GW1872. D.O.H.# 170009-03

WRD Exp. (GW)
April 1966

344940089585001

Well No.

L5

WELL SCHEDULE

Elog #16

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD

Record by P.E. Grantham Source of data Drlg + E Log Date 6-19-68 Map Hernando

State Mississippi 57 28 County DeSoto 17

Latitude: 34^{deg} 49^{min} 40^{sec} N Longitude: 08^{degrees} 95^{min} 85^{sec} 0¹⁹ Sequential number: 1

Lat-long accuracy: 2²⁰ T. 3^N S^R 7^E Sec 18^{NW} NE^W SW^{NE} B & M

Local well number: L005CA1803507W Other number: _____

Local use: 002016 Owner or name: Town of Hernando

Owner or name: HERNANDO Address: _____

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

Use of Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec, _____

water: Stock, (T) (U) (V) (W) (X) (Y) (Z) MU P

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

DATA AVAILABLE: Well data 0 Freq. W/L meas.: 0 Field aquifer char. 0

Hyd. lab. data: _____

Qual. water data; type: USGS 3/71

Freq. sampling: C Pumpage inventory: no period: _____

Aperture cards: SPRT yes 0

Log data: E Log 5-350 D:E

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 335 ft Meas. 3

Depth cased: 281 ft Casing type: Steel; Diam. 10X6 in 10

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

Method: (A) (B) (C) (D) (H) (J) (P) (R) (T) (V) (W) (X) (Z) H

Date Drilled: 9:6:8 Pump intake setting: _____ ft

Driller: Robert Ratliff Drlg Co., Grenada, Miss

Lift (type): air, bucket, cent, jet, multiple, multiple, none, piston, rot, submerg, turb, other T Deep 0 Shallow 40

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 60 V Trans. or meter no. _____

Descrip. MP 385 ft above LSD. Alt. MP _____

Alt. LSD: 385 395 385 Accuracy: 3

Water Level: _____ ft above below MP; _____ ft above below LSD 160 Accuracy: 6

Date meas: 6:8 Yield: _____ gpm 7:50 Method determined _____

Drawdown: _____ ft Accuracy: _____ hrs _____

QUALITY OF WATER DATA: Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm Hard. _____ ppm

Sp. Conduct 116 K x 10⁶ 1 Temp. 17 °F 170 Date sampled 3-2-71 371

Taste, color, etc. _____

PUNCHED and VERIFIED
ROLLA COMPUTATION BRANCH

Well No.

L5

Well No. _____

L5

Latitude-longitude _____

N
S

d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD

Physiographic
Province: _____

03

Section: _____

D

Drainage
Basin: _____

15E

Subbasin: _____

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (C) (E) (F) (H) (K) (L)

(P) offshore, pediment, hillside, terrace, undulating, valley flat (S) (T) (U) (V)

MAJOR

AQUIFER: _____

system

series

TE

aquifer, formation, group

SS

Lithology: _____

S

Origin: _____

3

Aquifer

Thickness: > 187 ft

Length of well open to: _____

ft

54

Depth to top of: _____

ft

281

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: _____

281' - 335'

6"

Depth to consolidated rock: _____

ft

Source of data: _____

64

Depth to basement: _____

ft

Source of data: _____

69

Surficial material: _____

Infiltration characteristics: _____

72

Coefficient Trans: _____

gpd/ft

Coefficient Storage: _____

76

Coefficient Perm: _____

gpd/ft²

Spec cap: _____

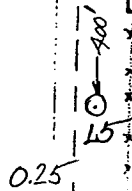
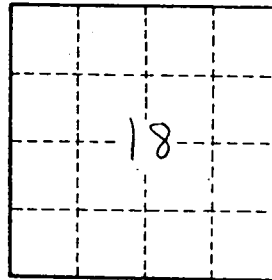
gpm/ft; Number of geologic cards: _____

79



Ground storage tank

Well 12



Old Hwy 51

Hernando, Miss.

Hwy 304

1 mile

Desoto
L-5
-68
US 65

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

CODED
CODED

WATER WELL DRILLERS LOG
Robert E. Kately Co. Desoto

date well completed 19 _____ firm name _____ county well located _____

LANDOWNER: Downing
Hernando, Miss.

(mailing address)

description of formations encountered	from	to
Buckshot & Sand	0	23
Sand	23	33
sand + gravel	33	50
Clay	50	151
Sand	151	338
Sandy shale	338	350

WELL LOCATION:
sec. 18 T. 3 N. R. 7 E.
S W
(distance) miles in (direction) of town (nearest town)

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

WELL COMPLETION DATA:

(1) diameter (inches) 10 x 6

(2) total depth (feet) 335

(3) static water level (feet) 160 ^{below} _{above} top of ground

(4) casing W. St. 281'
(material) (depth)

10" if telescope see back.
(size)

(5) screen 54' 281'
" (length) (depth to top)

6 st. steel
(size) (material)

(6) pump 60 250
(HP) (yield gpm)

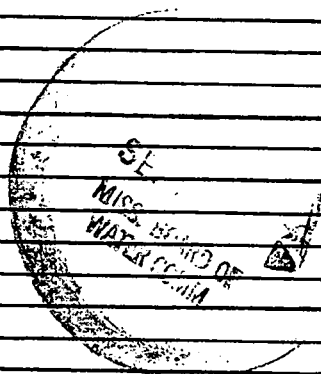
electric
(type power)

(7) electric log yes
(yes or no)

U.S.G.S.
(organization running log)

(8) how well bottom plugged BPU

CODED



DRILLERS REMARKS: _____

APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW WATER FROM 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) 961-5203

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

This box is for office use only.

4-23-96 AGN.

Issued: 3-25-86	Expires: 3-25-2006	Fee Paid:	Permit No.
Lat. 34-49-32.31	Long. 89-58-40	Elev. 370	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. MS-GW-01872

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 (Name) 64-6000440 (SSN or Tax ID No.)

190 Commerce Street (Address)

Hernando (City) MS 38632 (State & Zip) (601) 429-9092 (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner):

(Same) (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 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. Permit No. MS-GW-01871 on same 2 ac. 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.: 17120005

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

If well has already been drilled, when was well completed (date)? 8/9/, 1968. Under whose name was well originally drilled (if known)? City of Hernando

3. Description of proposed or completed well:

(a) DEPTH OF WELL: 350 feet. DRILLER: Robert E. Ratliff Co., Grenada, MS

(b) SURFACE CASING: Length 281 feet; Diameter 10 inches; Type coated steel

(c) SCREEN: Length 54 feet; Diameter 6 inches; Type stainless steel

(d) PUMP: Type U.S. "VHS"; Size _____; Capacity 750 gallons per minute; Setting depth 200 feet

(e) POWER UNIT: Type Elect.; Size 60 horsepower

4. PERMITTED VOLUME :

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

(b) 0.33 million gallons per day at a maximum rate of 750 gallons per minute

(CONTINUED ON BACK)

750

NO MAP

267

SPRT

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 _____ 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?

0.85	2001	1.00	2006	1.15	2011	1.30	2016
(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 31st day of Jan., 1996, at Hernando County of De Soto
My commission expires 6-30-97; Jarrett Riley Notary Public.

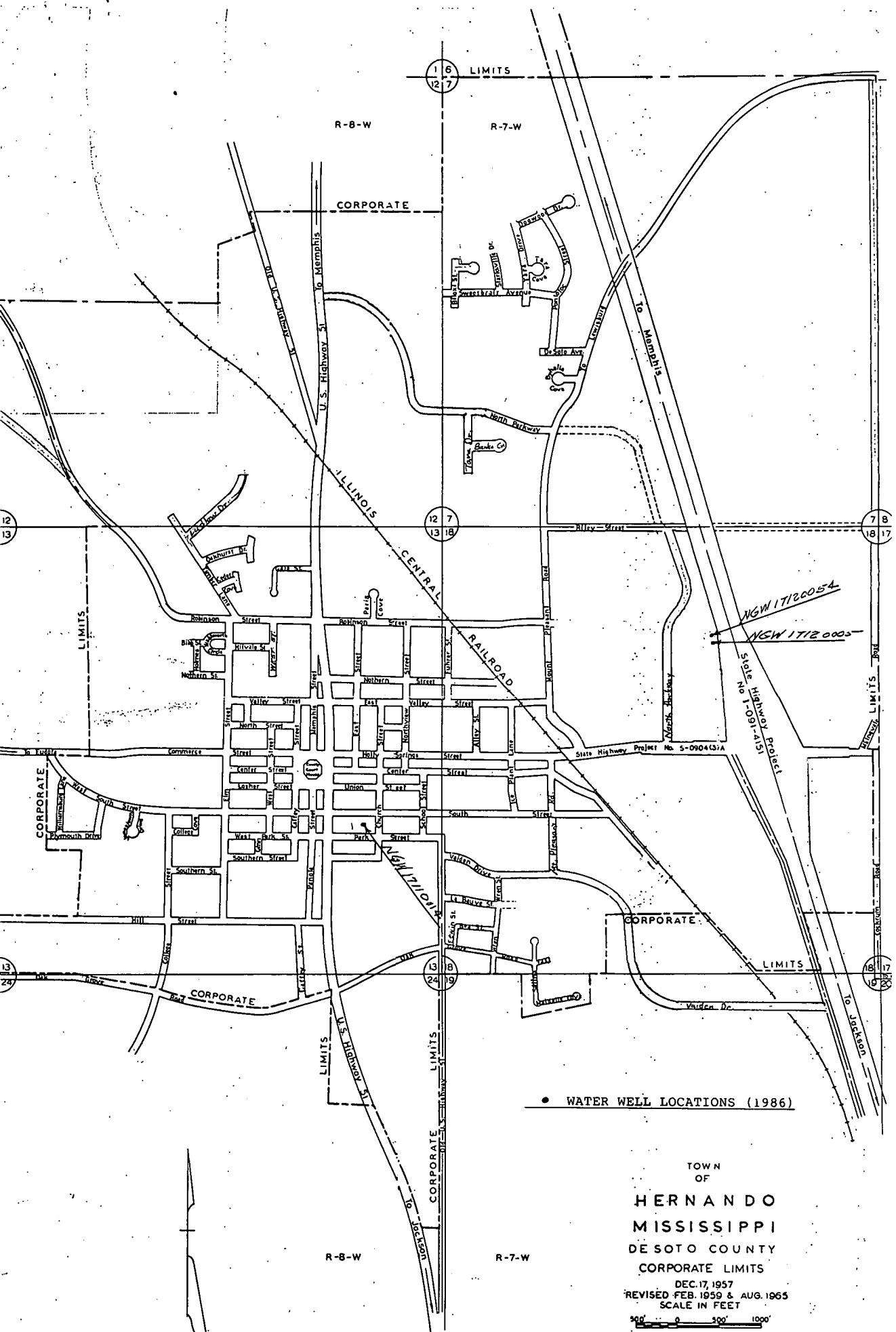
DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

SHB + PEG
USER NAME(S): ~~LAK / ORS~~ DATE: ~~7/26/94~~ 7-23-94
UNIT DEQ #: ~~84090~~ FILE #: ~~8072321B~~ 3072613B
HEALTH DEPT. #: ~~170009-03~~ ELEV. 399
USGS #: ~~463 L5~~ OLWR #: ~~MS-GW-1872~~
OWNER: Town of Hernando
LOCATION: NE/SW/NE S 18 T 35 R 7W COUNTY: DeSoto
HERNANDO QUAD
LOCATION DESCRIPTION: well in PENCED AREA.

CASING DIA: 12" PUMP TYPE & SIZE: Turline 160
GPS FIELD LOCATION: LAT. ~~34-49-60.1~~ LONG. ~~89-58-69.7W~~
34° 49' 35.3" 89° 58' 42.8"
GPS CORRECTED LOCATION: LAT. 34.82686306 LONG. 89.97823264

REMARKS: TAKE ROAD EAST OF CHEVROLET STATION
#3 is first and #2 is at tree
.1 miles from Commerce St. PASSED Interstate
exit ramp.

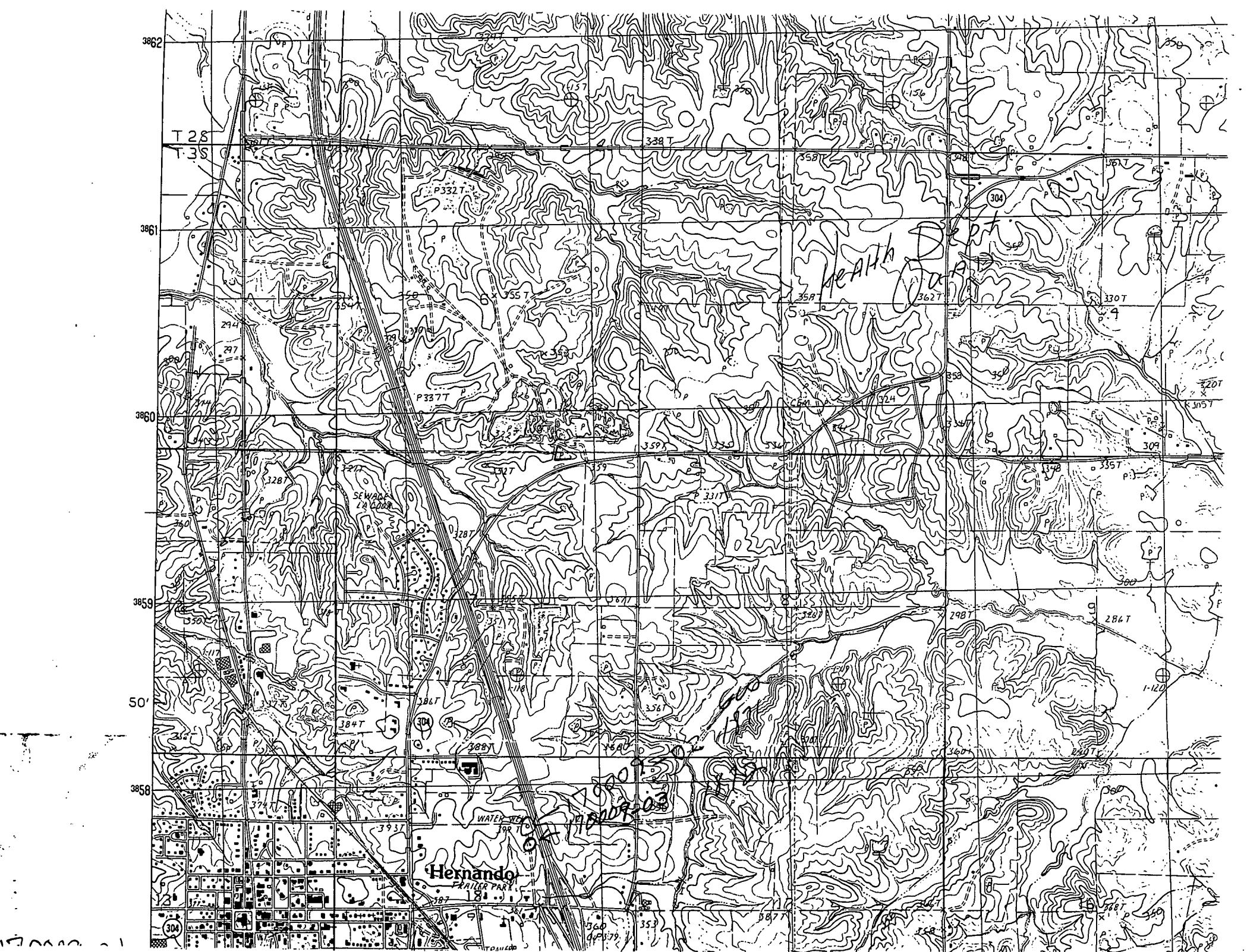


• WATER WELL LOCATIONS (1986)

TOWN OF
HERNANDO
MISSISSIPPI
 DE SOTO COUNTY
 CORPORATE LIMITS

DEC. 17, 1957
 REVISED FEB. 1959 & AUG. 1965
 SCALE IN FEET

500' 0 500' 1000'
 REVISED OCT. 1962 & JUNE 1967
 REVISED MARCH, 1976
 " " 1984



3862

T 28
T 35

328 T

358 T

388 T

398 T

3861

Health Dept

304

P 332 T

355 T

358 T

362 T

330 T

3860

294

297

P 337 T

355 T

359 T

359 T

359 T

359 T

3859

350

328

327

328 T

327

359 T

326

298 T

286 T

50'

350

328

327

328 T

327

359 T

326

298 T

286 T

3858

350

328

327

328 T

327

359 T

326

298 T

286 T

Hernando

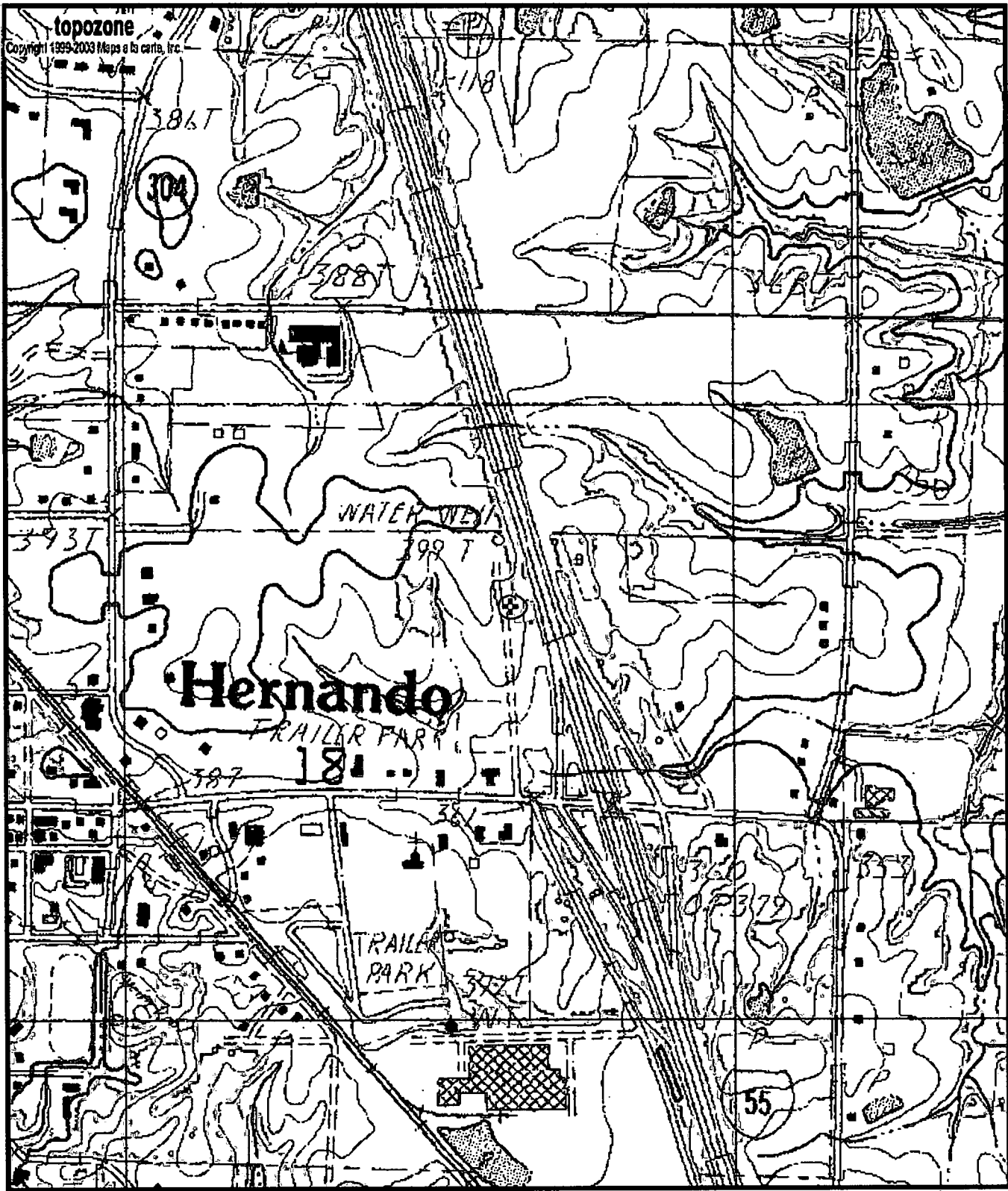
RAILROAD PART

WATER TOWER

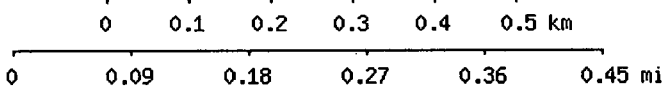
304

170000

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0170009-03
 6W01872
 L5



Map center is 34° 49' 37"N, 89° 58' 42"W (WGS84/NAD83)
Hernando quadrangle
 Projection is UTM Zone 16 NAD83 Datum

