

WELL SCHEDULE
GEOLOGICAL SURVEY

E-109 # 27
WATER RESOURCES DIVISION

U. S. DEPT. OF THE INTERIOR

MASTER CARD JAC

Record by GJD

Source of data

E-109 driller

Date

1-27-75

Map

Hernando 396
1:62,500

State

28

County (or town)

De Soto

17

Latitude:

32 19 18 N

Longitude:

92 37 37 W

Sequential number:

1

Lat-long accuracy:

20 T. 3 R. 8 S. 13 SW. NE SE

Local well number:

K 114 A D 13 03 S 0 8 W

Other number:

B & M

Local use:

213

Owner or name:

Owner or name:

HERNANDO

Address:

Town of Hernando

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

Use of water: (A) Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec, (B) (C) (D) (E) (F) (H) (I) (M) (N) (P) (R)

(S) Stock, Inact, Unused, Repressure, 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. (D) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) W

DATA AVAILABLE:

Well data

Freq. W/L meas:

Field aquifer char.

Hyd. lab. data:

Qual. water data; type:

Freq. sampling:

Pumpage inventory: yes no

Aperture cards:

SPRT

Log data:

E-109 7-322'

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD

Depth well:

ft 364

Meas. rept

3

Depth cased: (first perf.)

ft 304

Casing type:

Diam. in 11.2

Finish: (C) porous concrete, (F) gravel w. (G) gravel w. (H) horiz. (I) open (J) screen, (K) gallery, (L) end, (M) other, (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) G

Mechod: (A) air rot, (B) bored, (C) cable, (D) dug, (E) hyd jetted, (F) air rot., (G) percussion, (H) rotary, (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) A

Date Drilled:

1-25-75

9:75

Pump intake setting:

ft 190

Driller:

Bob Smith & Son Hernando

Lift (type):

(A) air, (B) bucket, (C) cent., (D) jet, (E) multiple, (F) multiple, (G) open, (H) none, (I) piston, (J) rot., (K) submerg, (L) turb., (M) other, (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) T

Deep

Shallow

Power (type):

(nat) diesel, elec, gas, gasoline, hand, gas, wind; (LP) H.P. 60 Trans. or meter no.

Descrip. MP

250 350

ft above below LSD, Alt. MP

Alt. LSD:

355

Accuracy: (source)

5

Water Level

ft above below MP; Ft below LSD

155

Accuracy:

D

Date meas:

8/16/75

8.75

Yield:

gpm 7.00

Method determined

Drawdown:

ft

Accuracy:

Pumping period

hrs

QUALITY OF WATER DATA:

Iron ppm

Sulfate ppm

Chloride ppm

Hard. ppm

Sp. Conduct

K x 10⁶

Temp. °F

Date sampled

Taste, color, etc.

10/30/89
123.03

WL Data

11/19/80
WL MP 131.90
MP-topog base -
1.7 MSD

WL LSD 130.20
355
130
125

10/5/83
WL = 139.95

Well No. K 114

HYDROGEOLOGIC CARD

Physiographic Province: 03 **Section:** _____

Drainage Basin: D **Subbasin:** 15E

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (K) (L) _____
 (P) (S) (T) (U) (V) offshore, pediment, hillside, terrace, undulating, valley flat _____

MAJOR AQUIFER: system _____ series TE aquifer, formation, group SPRT SS
 Lithology: _____ Origin: _____ **Aquifer Thickness:** _____ ft

MINOR AQUIFER: system _____ series _____ aquifer, formation, group _____ **Aquifer Thickness:** _____ ft

Length of well open to: _____ ft **Depth to top of:** _____ ft

Intervals Screened: _____

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

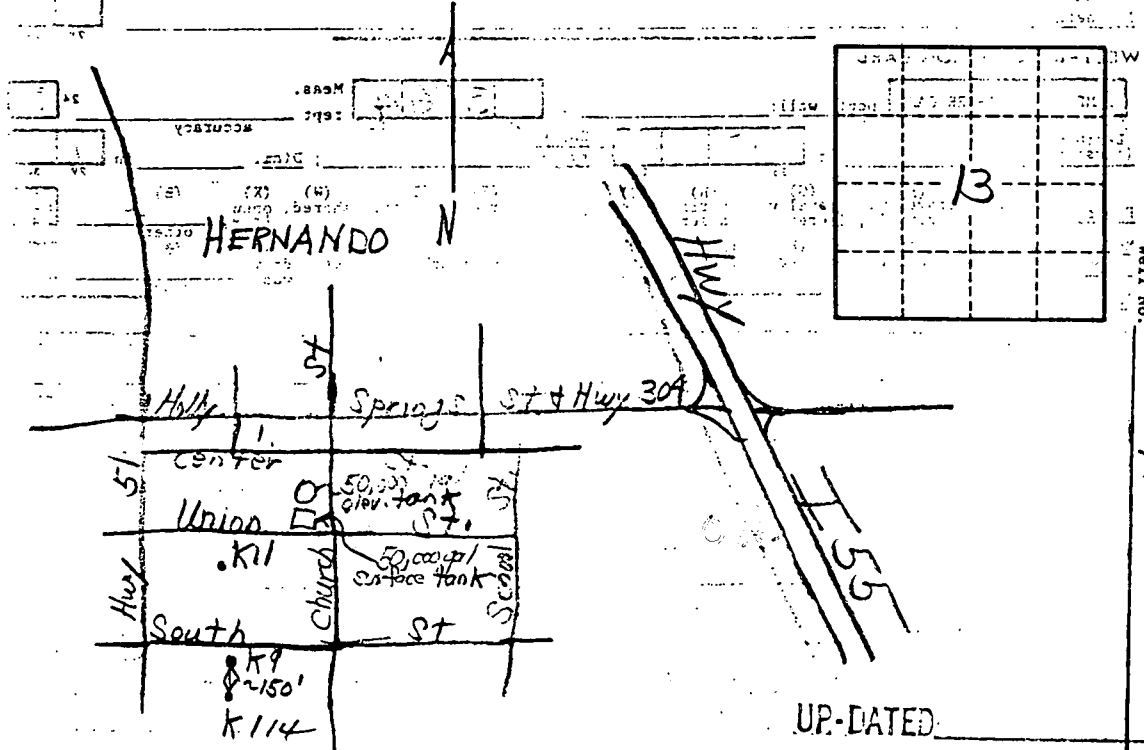
Depth to basement: _____ ft **Source of data:** _____

Surficial material: _____ **Infiltration characteristics:** _____

Coefficient Trans: _____ gpd/ft **Coefficient Storage:** _____

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

- 320



1-27-75
 Wells K9 + K11 are abandoned and filled with cement.

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

RECEIVED

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES
 P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-5202

FEB 12 1996

This box is for office use only. 4-23-96 AGN.

Issued: <u>3-25-86</u>	Expires: <u>3-25-2006</u>	Fee Paid:	Permit No.
Lat. <u>34-49-15</u>	Long. <u>89-59-32</u>	Elev. <u>365</u>	USGS No.
Quad. <u>Hernando</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): RENEWAL - PERMIT NO. MS-GW-01873

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):

NE 1/4 of the SE 1/4 of Section 13, Township 3 S, Range 8 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. _____

SECTION B (to be completed for GROUNDWATER SOURCE)

1. AQUIFER: Memphis SPRT MISSISSIPPI DEPARTMENT OF HEALTH NO.: 17110114

2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____.
 If well has already been drilled, when was well completed (date)? 8/2, 19 75. Under whose name was well originally drilled (if known)? City of Hernando

3. Description of proposed or completed well:
 (a) DEPTH OF WELL: 364 feet. DRILLER: Bob Smith Well Supply, Hernando, MS
 (b) SURFACE CASING: Length 304 feet; Diameter 12 inches; Type coated steel
 (c) SCREEN: Length 60 feet; Diameter 8 inches; Type stainless steel
 (d) PUMP: Type _____; Size _____; Capacity 500 gallons per minute; Setting depth _____ feet
 (e) POWER UNIT: Type Elect.; Size _____ horsepower

4. PERMITTED VOLUME:
 (a) _____ acre feet per year at a maximum rate of _____ gallons per minute
 (b) 0.25 million gallons per day at a maximum rate of 500 gallons per minute

267 (CONTINUED ON BACK) 500

SECTION C (to be completed for SURFACE WATER SOURCE)

- Source of water is from _____ which drains into _____
which drains into _____
(major stream or river)
- Description of pump/diversion works:
Pump (size & type): _____ Power Unit (size & type): _____
Lift: _____ feet Maximum capacity: _____ gallons per minute
- _____ 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)

- Name of storage reservoir: _____ Dam Height: _____ feet
- 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)

- 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. _____

- 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? $\frac{0.85}{\text{(Volume)}}$ $\frac{2001}{\text{(Year)}}$; $\frac{1.00}{\text{(Volume)}}$ $\frac{2006}{\text{(Year)}}$; $\frac{1.15}{\text{(Volume)}}$ $\frac{2011}{\text{(Year)}}$; $\frac{1.30}{\text{(Volume)}}$ $\frac{2016}{\text{(Year)}}$

- 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? _____

- RECREATION:** Explain how water will be used: _____

- OTHER USE:** Explain in detail (if needed, attach another page): _____

- 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.

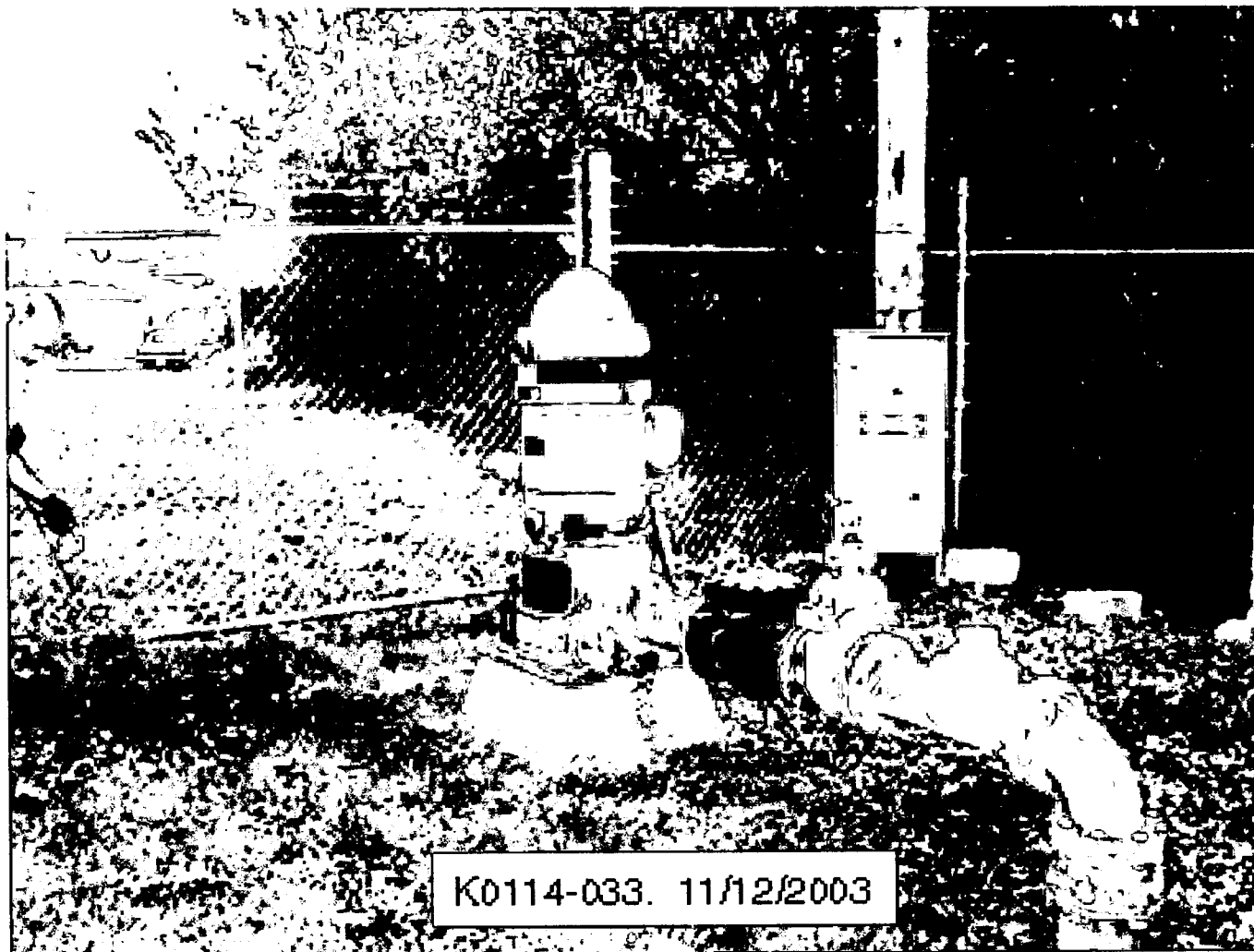


(Signature)

Subscribed and sworn to before me this 31st day of Jan., 1996, at Hernando County of DeSoto

My commission expires 6-30-97; Spencer Liley Notary Public.

033K0114.bmp



SPARTA DATA SHEET-VERIFICATION CHECKLIST

COUNTY DE SOTO

QUADRANGLE HERNANDO

WELL OWNER Hernando
NORTH MISS UTILITY (HERNANDO)

CHECKED
SAB
11-6-95

U.S.G.S. NO. K114

B.O.H. NO. _____

OLWR NO. _____

LOCATION:

MAP NW SW NE SE

GPS _____

ELEV. (MSL) 355

W.L. (L.S.) (1) 121.7

(2) _____

HEAD (MSL) 233.3

SCREENED INTERVAL 304 - 364

AQUIFER VERIFIED SPARTA

PREVIOUS W.L. 123.03 10/30/89

DATA ENTERED _____

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

HW-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-187*
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-187*
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-187*
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 _____

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

540 + PEG GPS LOG

7-23-94

USER NAME(S): LIAR / DRB DATE: 7/26/94

UNIT DEQ #: 84090 FILE #: 8072320C
8072613A

HEALTH DEPT. #: 172009-01 ELEV. 330

USGS #: 462 K14 OLWR #: MSL-GW 1873

OWNER: Town of Hernando

LOCATION: SW/NE/SE S 15 T 35 R 8W COUNTY: DeSoto

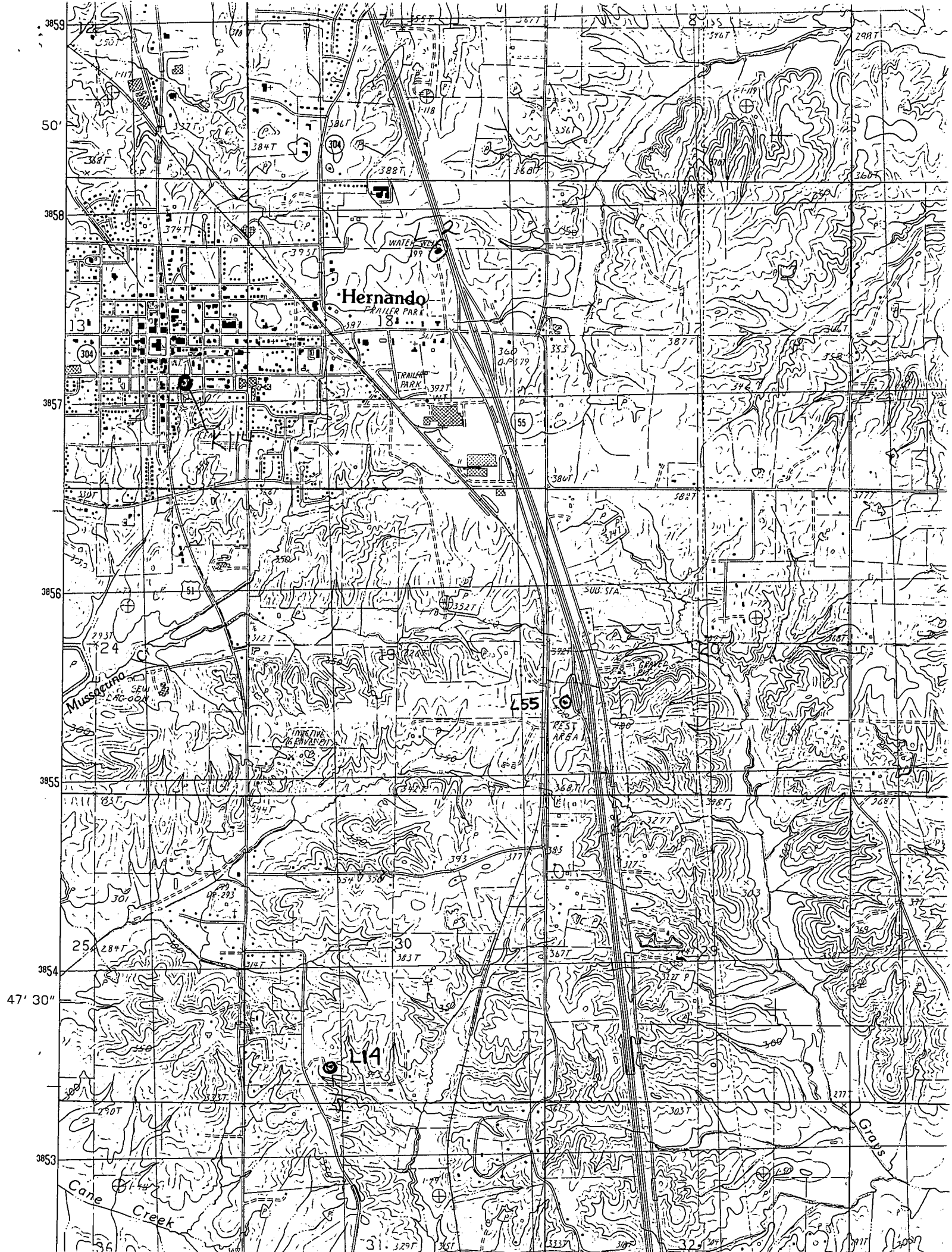
HERNANDO QUAD
LOCATION DESCRIPTION: NW corner next to house, 10 5m
chicken wire fence.

CASING DIA: 10" PUMP TYPE & SIZE: Turbine / 40^{HP}

GPS FIELD LOCATION: LAT. 34-49-33.1N LONG. 89-59-58.5W
34° 49' 16.2" 89° 59' 34.9"

GPS CORRECTED LOCATION: LAT. 34.82144091 LONG. 89.99297086

REMARKS: Well is on South St. approx. 1.05 mile from
corner of South & Hwy 51



3859
50'
3858
3857
3856
3855
3854
47' 30"
3853

Hernando
FLORIDA

55

55

14

Mussajuno

Cane Creek

Grass

WATER WHEEL

TRAIL PARK

13

25

30

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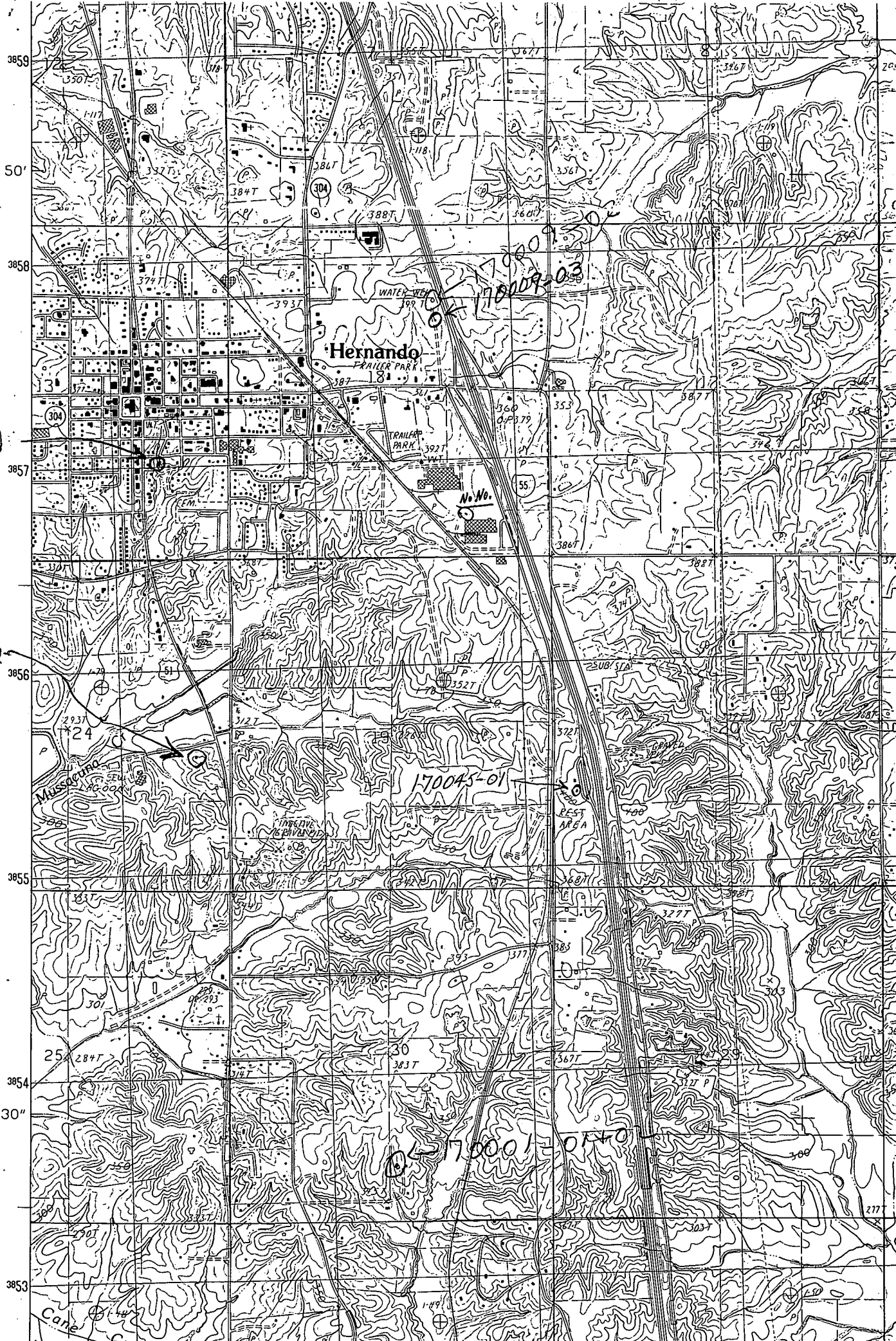
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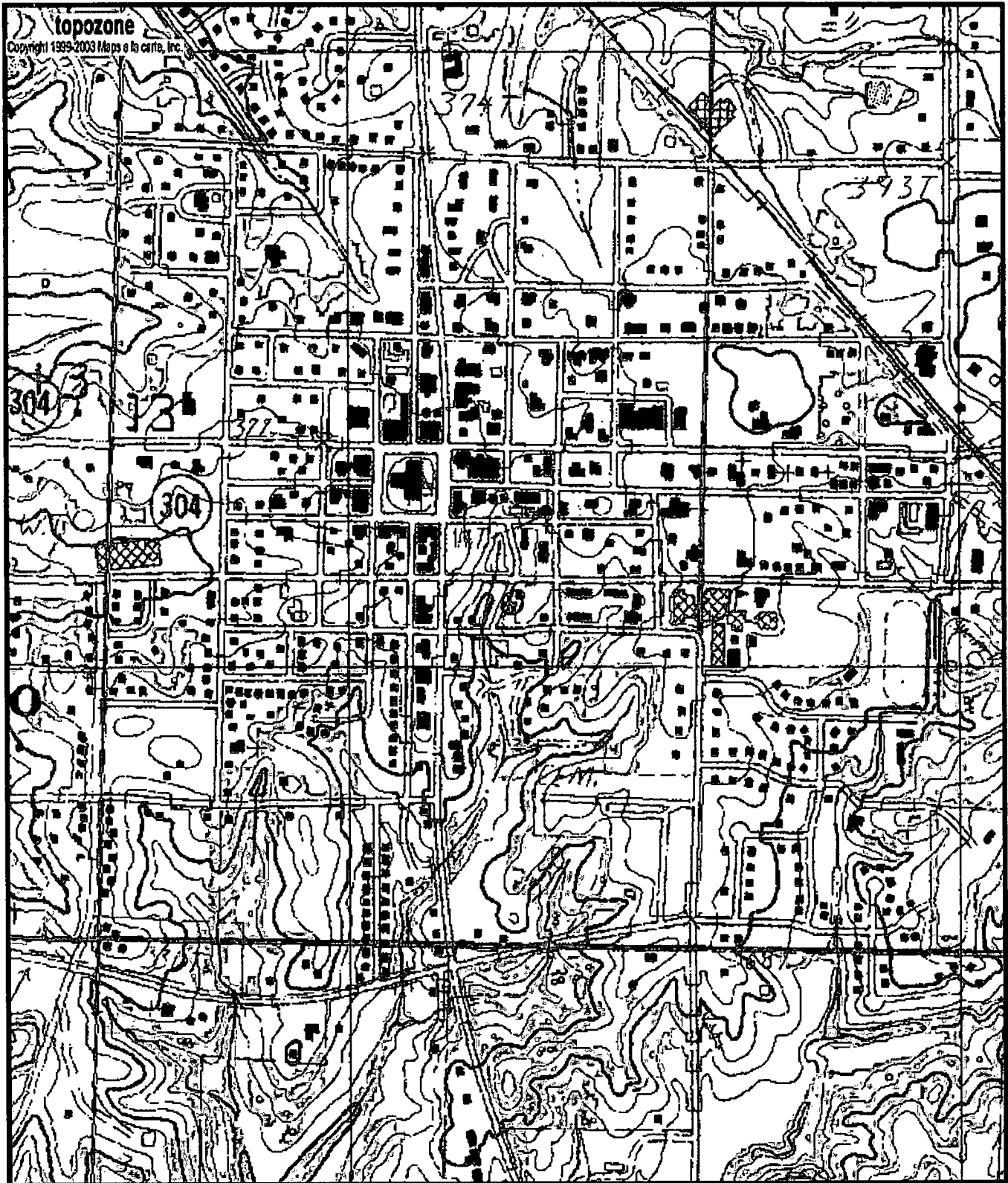
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x Cr. Bottom

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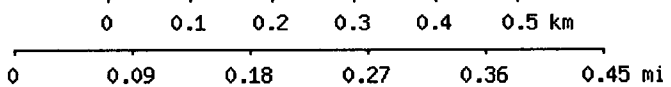
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70045-01

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0170009-01
 6W01873
 K114



Map center is 34° 49' 17"N, 89° 59' 35"W (WGS84/NAD83)

Hernando quadrangle

Projection is UTM Zone 16 NAD83 Datum

