

FORM 9-1642 (1-68)

Well No.

F2

WELL SCHEDULE

E log #14

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD/AL

Source of data BOWC Date 7/70

Record by M Smith

Map Horn Lake

State

28 County (or town) DeSoto

17

Latitude:

34 56 37 N

Longitude:

09 00 15 W

Sequential number: 1

Lat-long accuracy:

20' T. 20' R. 80' Sec 2 NW SW NE

Local well number:

F002CA0202S08W

Other number:

Well #1

Local use:

064014

Owner or name:

Horn Lake Water Assoc

Owner or name:

HORN LAKE WA

Address:

Ownership:

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

Water Dist

Use of water:

Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec, Stock, Instit, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other

WA

Use of well:

Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed

DATA AVAILABLE:

Well data

70

Freq. W/L meas.:

71

Field aquifer char.

Hyd. lab. data:

Qual. water data; type:

Freq. sampling:

75

Pumpage inventory:

yes

no, period:

Aperture cards:

SPRT

Log data:

DE

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD

Depth well:

ft

459

Meas. rept

accuracy

24 3

Depth cased; (first perf.):

ft

419

Casing type:

25

28

;

Diam.

8 x 6

in

29

30

Finish:

porous concrete, gravel w. screen, gravel w. horiz. gallery, open perf., screen, sd. pt., shored, open hole, other

31

Method Drilled:

air bored, cable, dug, hyd jetted, air reverse, percussion, rotary, trenching, driven, drive wash, other

32

Date Drilled:

9 6 6

Pump intake setting:

ft

33

35

36

38

Driller:

Layman - Clem

Lift (type):

(A) air, (B) bucket, (C) cent, (J) jet, (L) multiple, (M) multiple, (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, other

39

Deep

Shallow

Power (type):

diesel, elec, gas, gasoline, hand, gas, wind; H.P.

15

Trans. or meter no.

41

Descrip. MP

ft above

below

LSD, Alt. MP

Alt. LSD:

340

Accuracy: (source)

47

5

Water Level

ft above

ft below

MP; Ft below

LSD

130

Accuracy:

52

A

Date meas:

4-5-74

474

Yield:

@ 15

gpm

60

215

Method determined

61

Drawdown:

ft

62

Accuracy:

63

Pumping period

hrs

64

68

QUALITY OF WATER DATA:

Iron

ppm

69

Sulfate

ppm

70

Chloride

ppm

71

Hard.

72

Sp. Conduct

K x 10

73

Temp.

°F

74

76

Date sampled

77

79

Taste, color, etc.

M

Well No.

F2

Well No. F2

Latitude-longitude _____
d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: 03 Section: _____

D Drainage Basin: 16R Subbasin: _____

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) (F) (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: US Origin: 2 Aquifer Thickness: 14 ft

Length of well open to: _____ ft Depth to top of: 9.15 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"

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

Depth to basement: _____ ft Source of data: _____

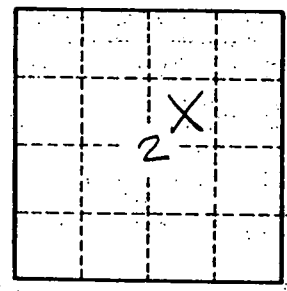
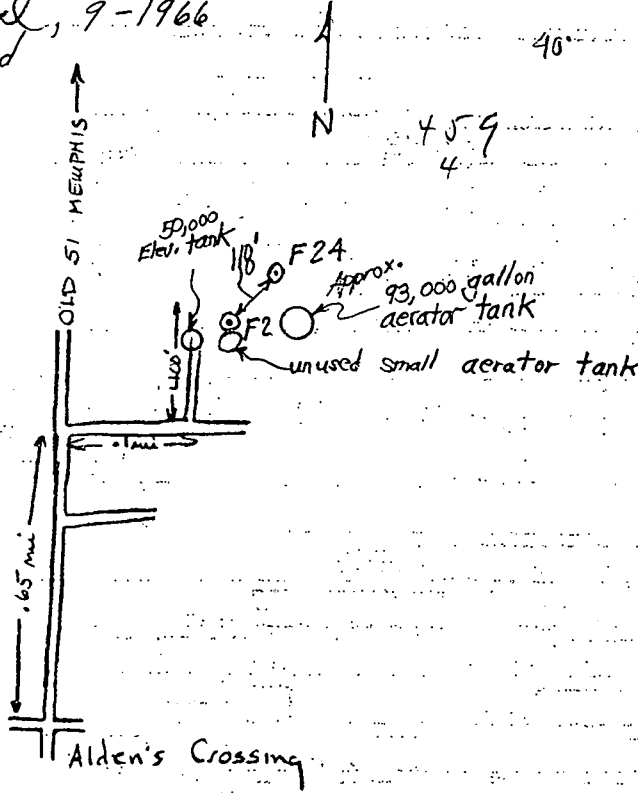
Surficial material: _____ Infiltration characteristics: _____

Coefficient Trans: _____ gpd/ft Coefficient Storage: _____

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

*approx. water level, 9-1966
124' below lwd*

*8" to 417"
6"*



Well No.

F2

DeSoto
 OF 7
 9-66
 GW
 0/1966

MISSISSIPPI BOARD OF WATER COMMISSIONERS

E LOG # 14

WATER WELL DRILLERS LOG

CODED

Date: 9-27, 1966, Driller: Layne-Central Co. County DeSoto
 (Name)

(1) Owner of Land: Horn Lake Water Assn.
 (Name)
Horn Lake, Miss.
 (Address)

(2) Location: 1/4, NE 1/4, Sec. 2 T2R8W
 (distance) (direction) (Nearest Town)

(3) Topography: _____
 (Hilly) (Flat) (Level)

(4) Purpose of Well: municipal
 (Domestic Irrigation
 Municipal, Industrial, Other)

Description & Color of Materials Sand, Clay, Red Clay, Shell, etc.	Thick- ness Feet	Depth Feet
sandy clay	0-30	470
sand-gravel	30-60	
clay	60-225	
rock	225-227	
hard clay	227-260	
clay-sand st.	260-290	
sand	290-325	
clay	325-354	
sand	354-390	
clay-sand st.	390-415	
sand	415-459	
clay-sand st.	459-470	

Information upon completion of well:

(1) Diameter 8 inches.

(2) Total Depth 470 feet.

(3) Water Level 124 feet below top of ground.

(4) Cased to 417', Size 8"

(5) Screen: Size 6", Length 40'

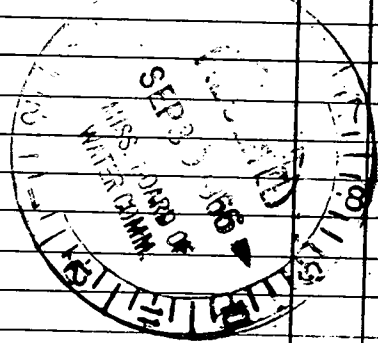
(6) Were any formations sealed against pollution?
 yes, _____ no.

If YES depth of formation 417'

Why _____ required

Drillers Remarks: _____

CODED



Well No.

(Use Back Side)

Mail this copy to Board of Water Commissioners 429 Miss. St. Jackson, Mis:

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

RECEIVED

JAN 11 1996

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES

P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 968-1111
Mississippi Department of Environmental Quality
Office of Land & Water Resources

This box is for office use only.

2-27-96 AGN.

FORM OLWR-AP-2 (REV. 9/94)

Issued: <u>4-8-86</u>	Expires: <u>4-8-2006</u>	Fee Paid:	Permit No.
Lat. <u>34-56-37</u>	Long. <u>90-00-55</u>	Elev. <u>345</u>	USGS No. <u>F2</u>
Quad. <u>Horn Lake</u>	ASCS Farm No.	STAC.	MSDOH No.
Aquifer: <u>SPRT</u>	Tract No.		Basin No. <u>08010211</u>
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): ~~NEW PERMIT~~ **RENEWAL** PERMIT NO. MS-GW-01915

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: HORN LAKE WATER ASSOCIATION, INC. 64-0505-460
(Name) (SSN or Tax ID No.)
P.O. BOX 151
(Address)
HORN LAKE MS 38637 (601) 393 0140
(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 2, Township 2 South, Range 8 West, 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)

- AQUIFER: SPARTA SAND AQUIFER MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170010
- Proposed work will begin on _____, 19____, and will be completed by _____, 19____.
If well has already been drilled, when was well completed (date)? September 27, 1966. Under whose name was well originally drilled (if known)? _____
- Description of proposed or completed well:
 - DEPTH OF WELL: 470 feet. DRILLER: Layne
 - SURFACE CASING: Length 417 feet; Diameter 8" inches; Type _____
 - SCREEN: Length 40 feet; Diameter 6" inches; Type _____
 - PUMP: Type _____; Size _____; Capacity _____ gallons per minute; Setting depth _____ feet
 - POWER UNIT: Type _____; Size _____ horsepower
- PERMITTED VOLUME:
 - 0.09 acre-feet per year at a maximum rate of _____ gallons per minute
 - 0.14 million gallons per day at a maximum rate of 400 gallons per minute

(CONTINUED ON BACK)

400

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 1303
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?
 (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:** THERE IS NO WAY I CAN ESTIMATE HOW MUCH WATER OUR SYSTEM IS GOING TO USE OVER THE NEXT TWENTY YEARS!

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

CONNIE BUNTING
(Name)
P. O. BOX 151
(Address)
HORN LAKE, MS 38637
(City, State, Zip)
601-393-0140
(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.

Connie Bunting
(Signature)

Subscribed and sworn to before me this 5th day of Jan, 19 96, at Deato County of MS
My commission expires November 13, 1998
My commission expires _____; Orace A. Carter Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

Stewart/Everett

~~SHD & PEG~~ GPS LOG

10/22/98

~~8-22-96~~

USER NAME(S): LAC / DRD

DATE: 7/28/94

UNIT DEQ #: 84090

FILE #: B072814E

HEALTH DEPT. #: 170010-01

ELEV. 300 ^{1082273A}

USGS #: 464 F-2

OLWR #: A102218B MS-GW-0415

OWNER: Horn Lake Water Assn

LOCATION: NW/1/4 SW/1/4 S 13 T 25 R 8W COUNTY: De Soto

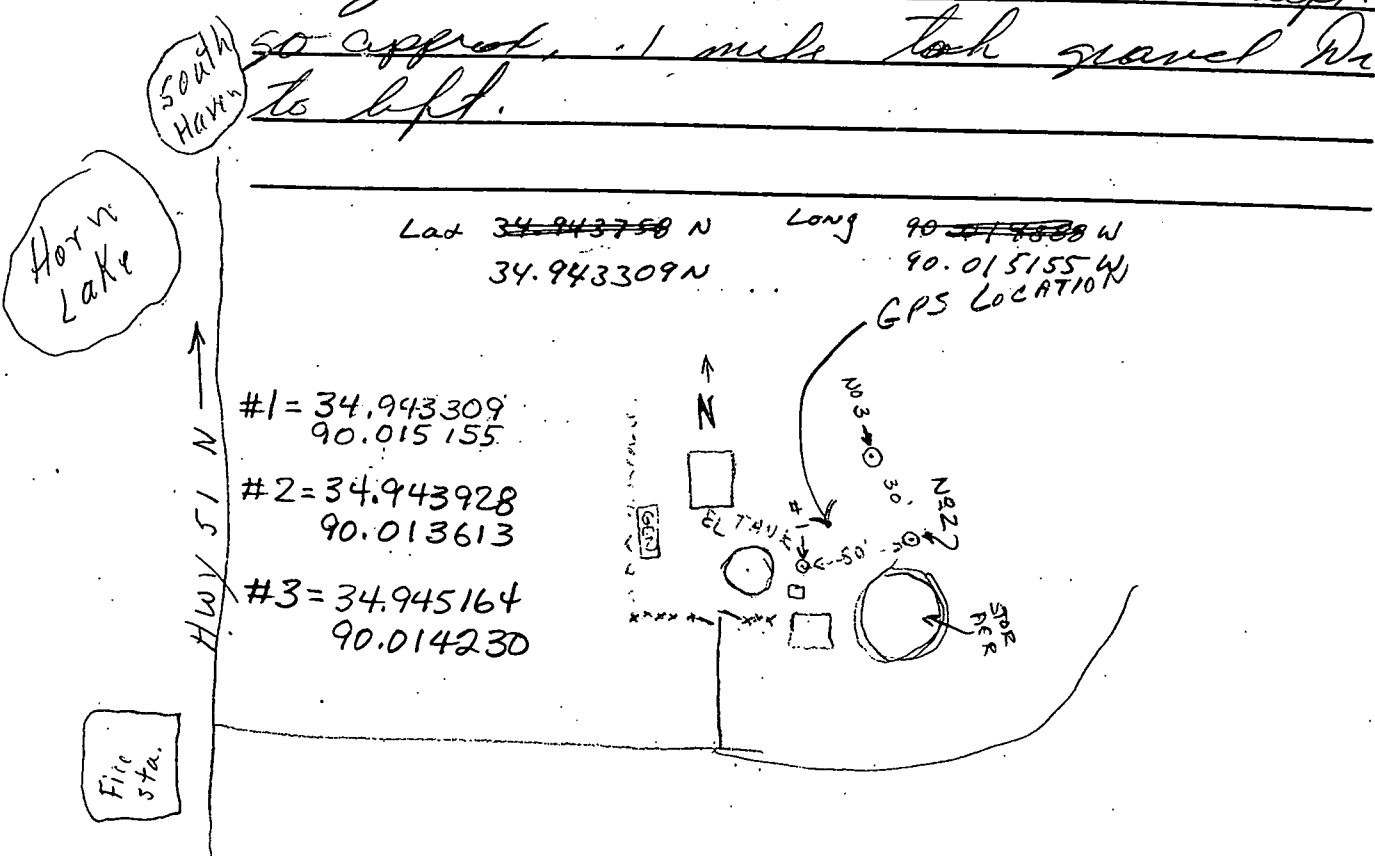
LOCATION DESCRIPTION: behind white pump house road between elevated tank + storage tank

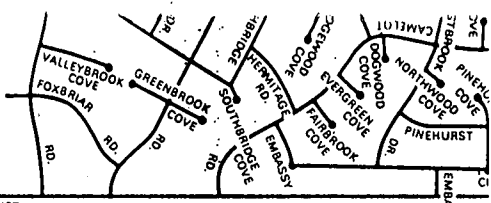
CASING DIA: 10" PUMP TYPE & SIZE: Turbine / 4

GPS FIELD LOCATION: LAT. ~~34-56-628~~ LONG. 90-00-921W

GPS CORRECTED LOCATION: LAT. 34° 56.620' LONG. 90° 00.905'

REMARKS: Hwy 515 to Great Oak Dr. Turn left. 50 approx. .1 mile to gravel Dr. to left.



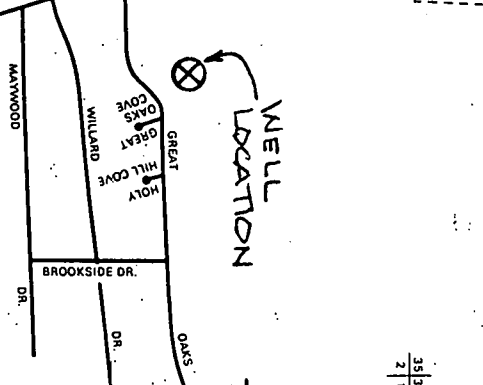
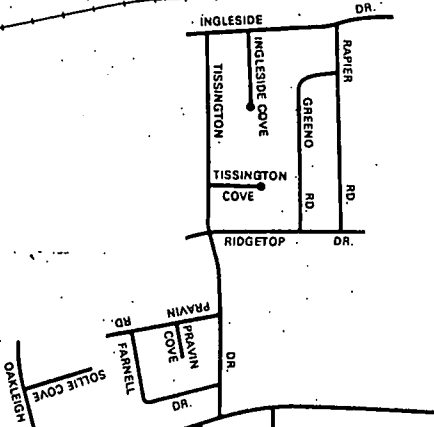


Horn Lake
 1980 POP. 4,326
 CORPORATE LIMITS AS OF 8/80

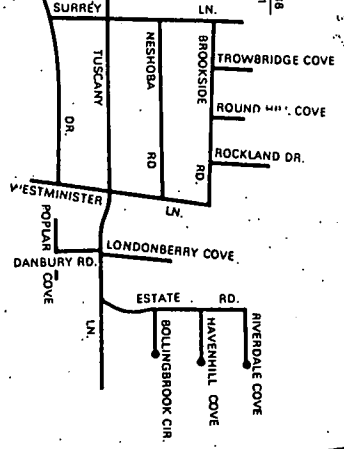
ILLINOIS CENTRAL

NAIL ROAD

MS. HWY. # 51



WELL LOCATION



Gov-
 1974
 Renew

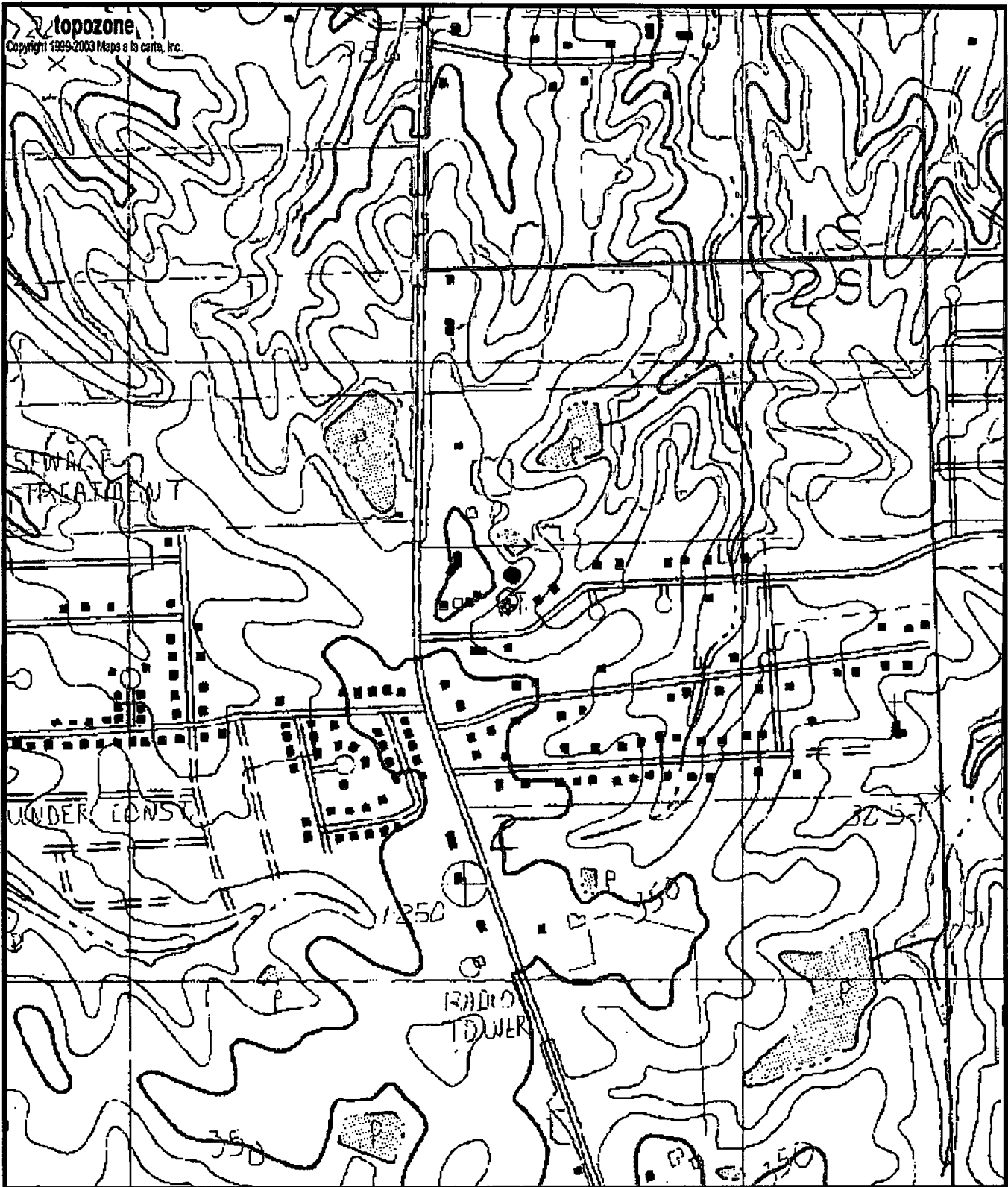


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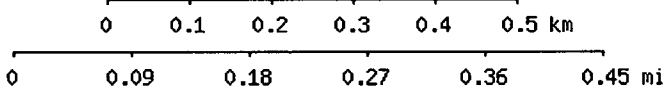
JAN 11 1996

Dept. of Environmental Quality
 Office of Land & Water Resources





0170010-01
6W01915
F2



Map center is 34° 56' 36"N, 90° 00' 54"W (WGS84/NAD83)
Horn Lake quadrangle
 Projection is UTM Zone 15 NAD83 Datum

↑ G
 M=-0.005
 G=1.711