

FORM 9-1642 (1-68)

Well No.

F24

WELL SCHEDULE

Elog # 21

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

PUNCHED APR 22 1974

MASTER CARD

JCM

BOWC

Record by

0

Source of data

Obs driller

Date

10-27-71

Map

Horn Lake

State

Miss

28

County (or town)

DESOTO

17

Latitude:

34 56 34 N

Longitude:

09 00 05 W

Sequential number: 1

Lat-long accuracy:

2

2

8

2

Sec

NW

SW

NE

SE

Local well number:

F024CA0201S08W

Other number:

Well # 2

Local use:

002

Owner or name:

Owner or name:

HORN LAKE UTIL

Address:

Ownership:

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

WA

N

Use of water:

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

Stock, Instt, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other

N

Use of well:

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

W

DATA AVAILABLE:

Well data

70

Freq. W/L meas:

Field aquifer char.

71

Hyd. lab. data:

Qual. water data; type:

SPRT

Freq. sampling:

73

Pumpage inventory:

no, period:

Aperture cards:

Log data:

Elog 26' - 592'

D E

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD

Depth well:

470

Meas. rept

24 3

Depth cased; (first perf.):

430

Casing type:

Steel

Diam.

10x8

in

29 30 10

Finish:

porous concrete, gravel w. concrete, (perf.), gravel w. (screen), gravel w. (galler), horiz. open perf., screen, sd. pt., shored, open hole, other

5

Method:

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

H

Date Drilled:

10-27-71

971

Pump intake setting:

ft 36 38

Driller:

R. RATLIFF

Lift (type):

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

Deep

Shallow

Power (type):

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

40

Trans. or meter no.

Descrip. MP

ft above below LSD, Alt. MP

Alt. LSD:

340

Accuracy: (source)

topo

47 4

Water Level

ft above below MP; Ft below LSD

128

Accuracy:

52 D

Date meas:

071

Yield:

gpm

500

Method determined

61

Drawdown:

ft

Accuracy:

hrs

66

QUALITY OF WATER DATA:

Iron

ppm

Sulfate

ppm

Chloride

ppm

Hard.

ppm

Date sampled

77

79

Sp. Conduct

K x 10

Temp.

°F

74

76

77

79

Taste, color, etc.

Well No.

F24

Well No. _____

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

HYDROGEOLOGIC CARD

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

D Drainage Basin: 16R Subbasin: _____

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

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

Lithology: UIS Origin: 2 Aquifer Thickness: _____ ft

246 Length of well open to: _____ ft 40 Depth to top of: _____ ft 346

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: 8" SS.

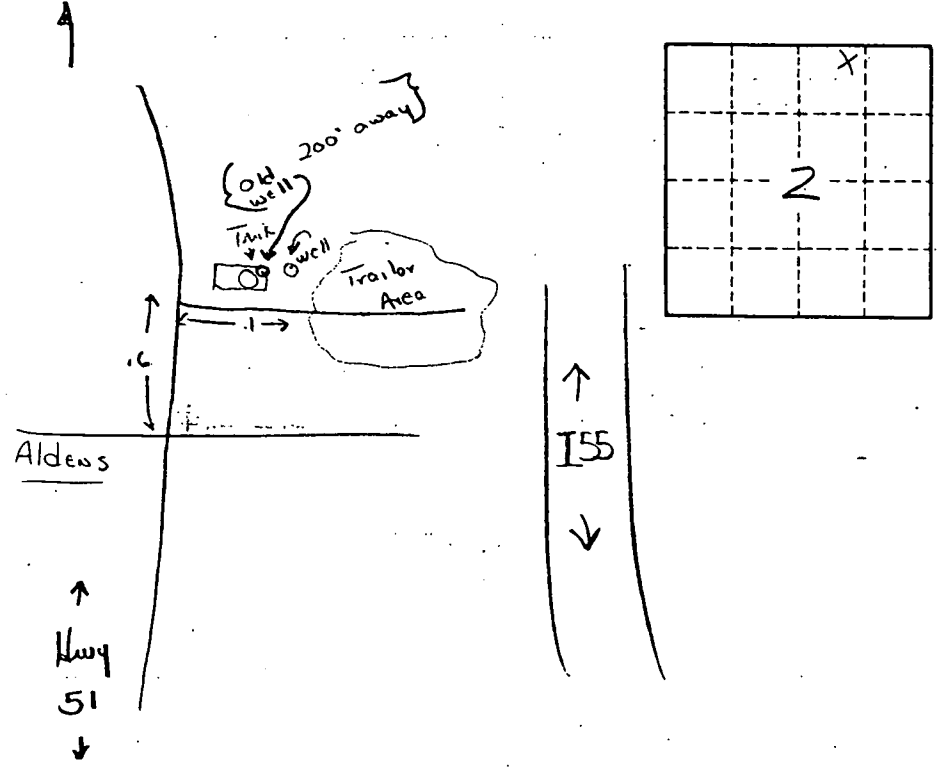
Depth to consolidated rock: _____ ft _____ Source of data: _____

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: _____



Recorded by WTO. JAC

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT
WELL RECORD

4/77

Well No. F 24

Date 1/21/71 1/6/77

E-Log No. # 21

County Desoto

GEN. SITE DATA

Site ID 3 4 5 6 3 4 0 9 0 0 0 5 7 0 1 R=0* T=A M * 2=W*

Data reliab. 3=C U * Report. agency 4=USGS* Dist. 6=28* 7=28* Co. 8=0 3 3 *

Lat. Long. 9=3 4 5 6 3 4 * 10=0 9 0 0 0 5 7 * Well No. 12=F 0 2 4 *

Location 13=N E S W S 0 2 T 0 2 S R 0 8 W * Alt. 16=3 4 0 *

Hyd. Unit (OWDC) 20= * Date 21=1 0 1 2 7 1 1 9 7 1 *

Well use 23=W * Water Use 24=N * Hole depth 27=5 9 2 * Well depth 28=4 7 0 *

WL 30=1 2 8 * Date 31=1 0 1 0 0 1 1 9 7 1 * Source 33=D *

Status 273= *

OWNER

R=158* T=A M * Date 159# 1 0 1 0 0 1 1 9 7 1 * Owner No. _____

Owner 161=H O R N L A K E U T I L *

FIELD QW

R=192* T= A M * Date 193# / / * Temp. 196#00010* 197= . * *

R=192* T= A M * Date 193# / / * Cond. 196#00095* 197= . * *

R=192* T= A M * Date 193# / / * pH 196#00400* 197= . * *

CONSTR.

R=58* T=A M * 59# 1* Date 60=1 0 1 0 0 1 1 9 7 1 * Remarks _____

Drlg. 63=0 0 2 * Name Robt Ratliff Method 65=H * Finish 66=S *

CASING

R=76* T=A M * 59# 1*

Top csng. 77# 0 * Bot. csng. 78=4 3 0 * Diam. 79# 1 1 0 *

R=76* T= A M * 59# 1*

Top csng. 77# . * Bot. csng. 78= . * Diam. 79# . *

OPENINGS

R=82* T=A M * 59# 1* Top 83# 4 3 0 * Bottom 84=4 7 0 *

Type 85=S * Diam. 87=8 * Size 88= . *

R=82* T= A M * 59# 1* Top 83# . * Bottom 84= . *

Type 85= . * Diam. 87= . * Size 88= . *

YIELD

R= 134 146 * T=A M * 147# 1 * Q 150=5 0 0 * Q/S 272= . *

LIFT

R=42* T= (A) M * Lift type 43# T * Intake 44= * Power type 45= E *

Date 38= 10/00/1971 * H.P. 46= 40. *

R=198* T= (A) M * Log 199# D * Top 200= 0. * Bot 201= 592. *

R=198* T= (A) M * Log 199# E * Top 200= 26. * Bot 201= 592. *

R=189* T= (A) M * E Log No. 190# 02,1 * 191= M I S S D I S T *

R=114* T= A M * Year 115# * Type 120= *

R=90* T= (A) M * 256# 1 * Top 91= 346. * Bot 92= 592. *

Unit ID 93= 1245 PRT * Name of Unit Sparta S1

R=90* T= A M * 256# 1 * Top 91= * Bot 92= *

Unit ID 93= * Name of Unit

R=98* T= A M * 99# 1 * Unit tested 100= *

R=105* T= A M * 99# 1 * Test No. 106# *

107= * Transmissivity (gal/d)/ft

108= * Hydraul. cond. (gal/d)/ft²

110= * Storage coeff. Boundaries

DeSoto
 F24
 10-29-71
 2nd 01914

CODED ELOG # 21

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

FEB 25 1972

WATER WELL DRILLERS LOG

~~Feb 29~~ 10-29 date well completed
Robert E. Ratliff Co. firm name
DeSoto county well located

LANDOWNER: Horn Lake Water Assn.
Horn Lake, Miss.
 (mailing address)

description of formations encountered	depth	
	from	to
Red Clay	0	30
Red Clay, gravel, + sand	30	90
White Clay	90	120
Red Sand	120	210
Sandy shale	210	240
Sand	240	330
Sandy shale + Clay	330	350
Sand	350	400
Clay	400	420
Good sand	420	510
Clay	510	520
Sand	520	590

WELL LOCATION:
 sec. 2 T. 2 N. R. 8 E.
 1 miles South of Horn Lake
 (distance) (direction) (nearest town)

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

WELL COMPLETION DATA:
 (1) diameter (inches) 10"
 (2) total depth (feet) 470'
 (3) static water level (feet) 128' below top of ground.
 (4) casing Bl. Sl. Coated w/ Plastic (material) 422' (depth)
10" (size) If telescope see back.
 (5) screen 40' (length) 430' (depth to top)
8" (size) S.S. (material)
 (6) pump 40 (HP) 500 (yield gpm)
Electric (type power)
 (7) electric log Yes (yes or no)
U. S. G. S. (organization running log)
 (8) how well bottom plugged B.P.V.

DRILLERS REMARKS:

CODED

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

Stewart/Everett

SHR+REG GPS LOG

10/22/98

~~8-22-96~~

USER NAME(S): LIAA / DUB

DATE: 7/28/94

UNIT DEQ #: 84090

FILE #: B072814F

HEALTH DEPT. #: 170010-02

ELEV. 300 ^{ACF2213A}

USGS #: 465 P-24

OLWR #: A1022188 MS-6W-01914

OWNER: Hoan Lake Water Assoc.

LOCATION: NW/SW/NE S 13 T 25 R 80 COUNTY: De Soto

LOCATION DESCRIPTION: Well in far NE corner of fenced area

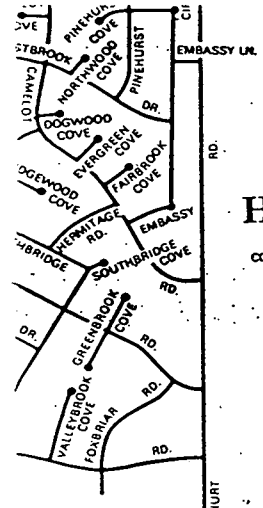
CASING DIA: 10" PUMP TYPE & SIZE: Turbine 1/40

GPS FIELD LOCATION: LAT. ~~34 56 675N~~ LONG. 90-00-881W

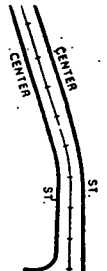
GPS CORRECTED LOCATION: LAT. 34° 56' 599" LONG. 90° 00' 905"

REMARKS: See #1 for location + drawing

Lat ~~34.943928~~ N Long ~~90.015155~~ W
34.943928 N 90.013613 W



Horn Lake
 1980 POP. 4,326
 CORPORATE LIMITS AS OF 6/80



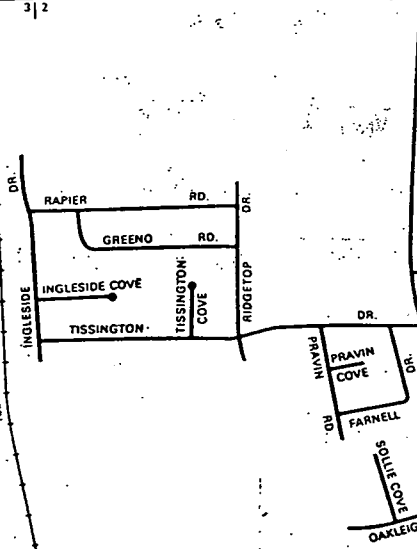
MS. HWY. # 51



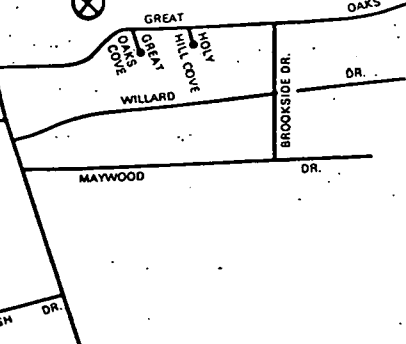
HOPPER DR.

NAIL ROAD

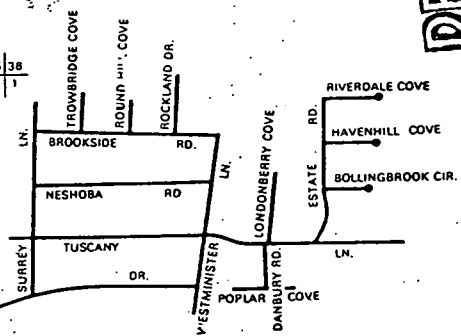
ILINOIS DR.



WELL LOCATION



35 38
2 1



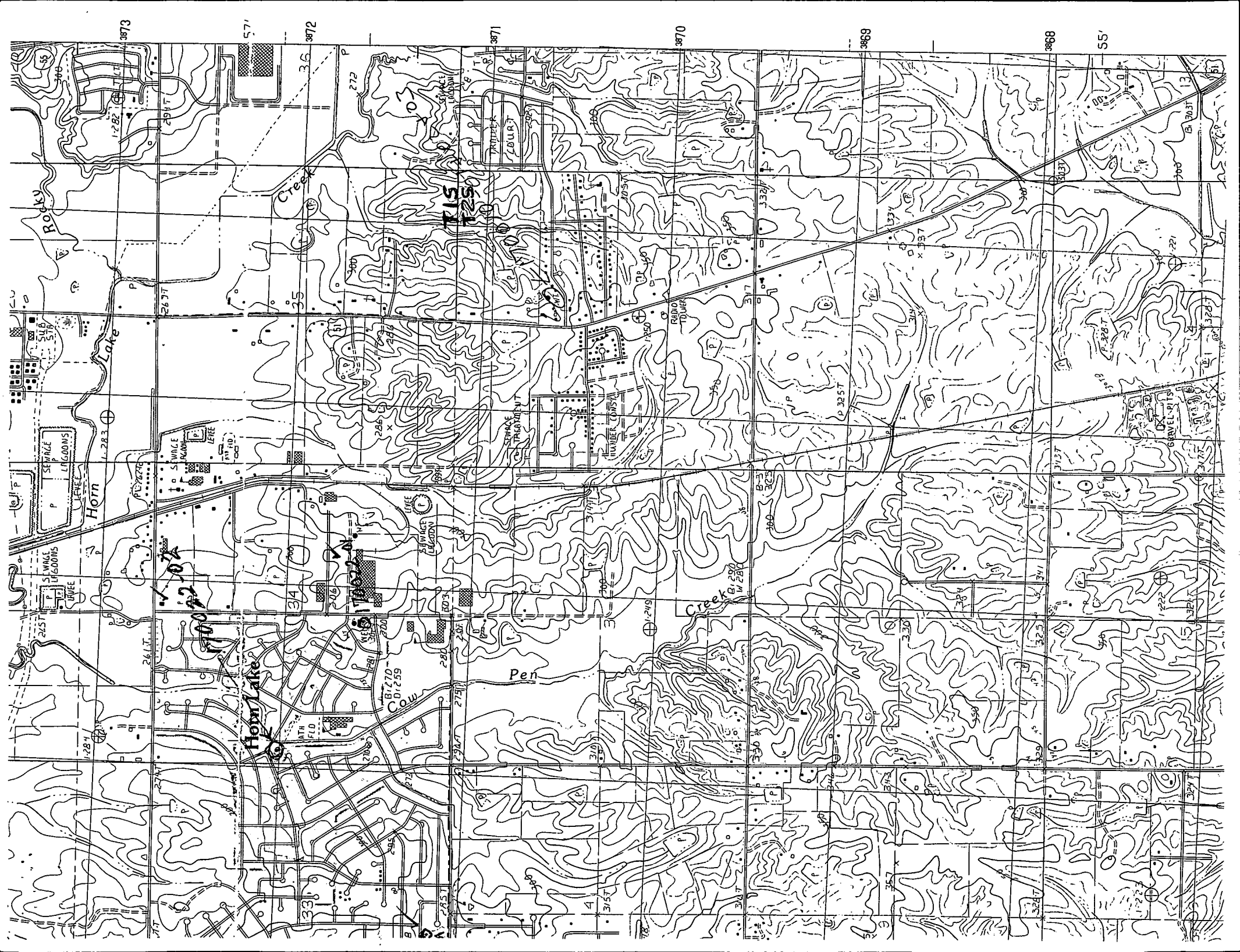
RECEIVED

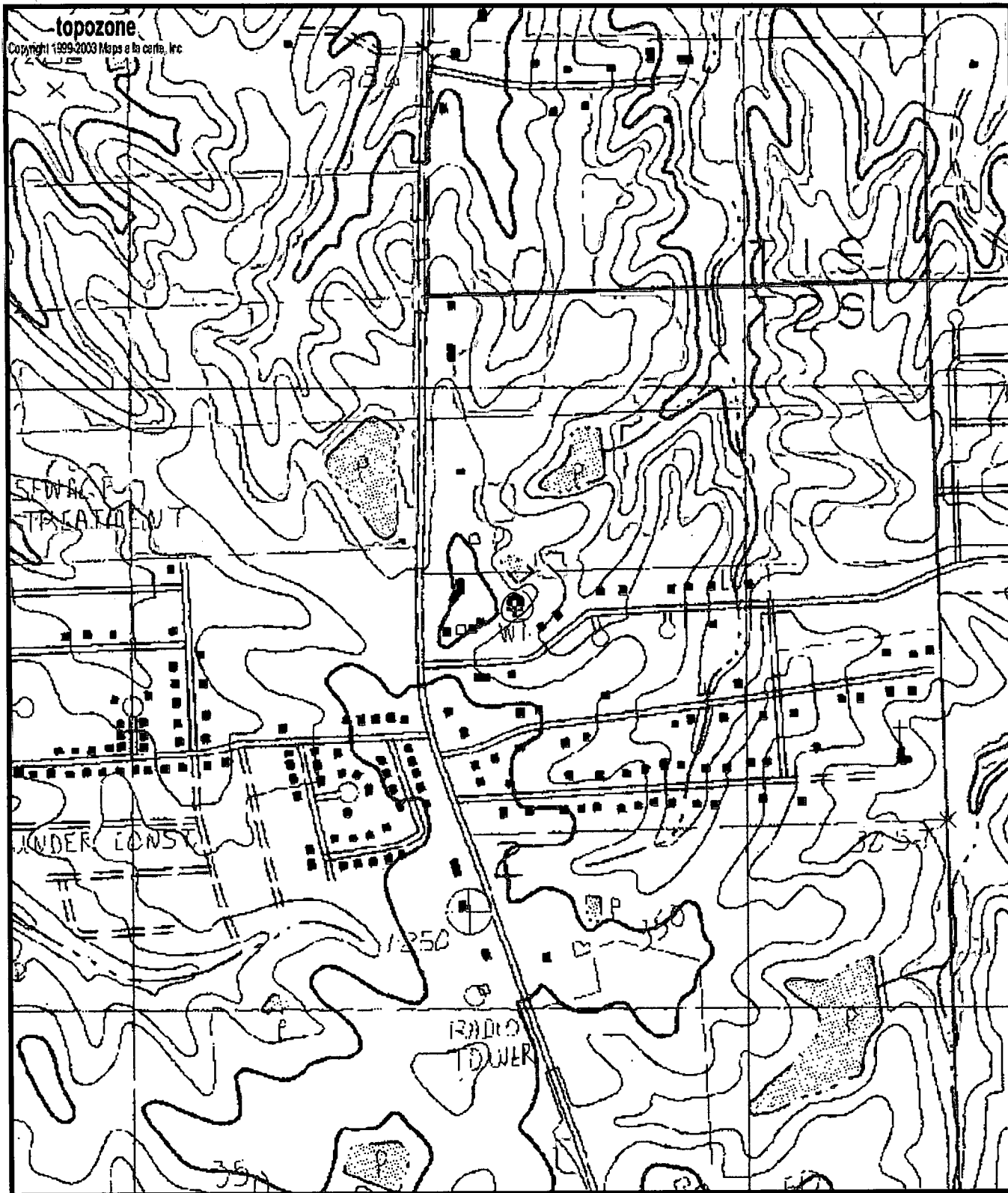
JAN 11 1996

Dept. of Environmental Quality
 Office of Land & Water Resources

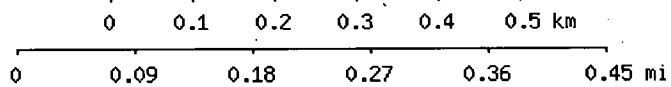
Handwritten: 5171 Ave







0170010-02
6W01914
F24



Map center is 34° 56' 37"N, 90° 00' 54"W (WGS84/NAD83)

Horn Lake quadrangle

Projection is UTM Zone 15 NAD83 Datum

M=-0.005

G=1.711