

FORM 9-1642 (1-68)

Well No. F 30

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR GEOLOGICAL SURVEY WATER RESOURCES DIVISION

393-0315 James Osborn

MASTER CARD

Record by Q Source of data MRWC Date 4.24.72 Map Horn Lake

State 28 County (or town) DeSoto 17

Latitude: 34⁵ 45⁶ 47^N Longitude: 090⁰ 44⁷ Sequential number: 1

Lat-long accuracy: 3⁰ T 2¹ R 8⁰ Sec 6^{NW} NE^{NE}

Local well number: F 0 3 0 A A 0 6 0 2 5 0 8 W Other number: 1

Local use: 058 Owner or name: North MS Utility Co

Owner or name: TWIN LAKES SUBD Address: Southaven Land Co.

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

Use of water: (A) Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec, (S) Stock, Instit, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other PW 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: yes no period:

Aperture cards: SPRT yes

Log data: D

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 398 Meas. 3

Depth cased: 357 Casing type: Steel Diam. 8

Finish: porous concrete, gravel w. concrete, (F) gravel w. (perforated), (G) gravel w. (screen), (H) horiz. gallery, (I) open end, (P) perf., (S) screen, (T) sd. pt., (W) shored, (X) open hole, (Z) other 5

Method: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd jetted, (J) air rot., (P) percussion, (R) rotary, (T) reverse, (V) driven, (W) drive wash, (Z) other 4

Date Drilled: 3-29-72 972 Pump intake setting: 30 38

Driller: Watson Co.

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 7 Deep Shallow

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

DEC 9 1974 Alt. MP 305 ft below LSD, Alt. MP 305

Alt. LSD: 320 Accuracy: (source) 5

Water Level: 101 Accuracy: 7

Date meas: 372 Yield: 220 Method determined 61

Drawdown: 3 Accuracy: 63 Pumping period: 66 68

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

Sp. Conduct 73 Temp. 74 76 Date sampled 77 79

Taste, color, etc. 75

PUNCHED

Well No.

F 30

Well No. F

Latitude-longitude N
S
d m s d m s

C-30

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, (E) offshore, pediment, hillside, terrace, undulating, valley flat

MAJOR AQUIFER: TE Aquifer Thickness: 51 ft

Lithology: S Origin: 2 Depth to top of: 349 ft

MINOR AQUIFER: Aquifer Thickness: ft

Lithology: Origin: Depth to top of: ft

Intervals Screened: 6" SS 351-390'

Depth to consolidated rock: ft Source of data:

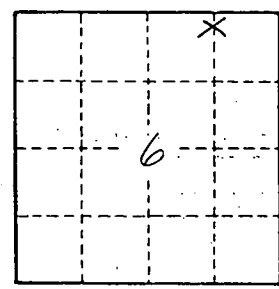
Depth to basement: ft Source of data:

Surficial material: Infiltration characteristics:

Coefficient Trans: Coefficient Storage:

Coefficient Perm: Number of geologic cards:

See well F17 for location.



Well No.

F30

DEC 0 1970

De Soto
Mississippi

De Soto
F 30
3-29-72

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

INDEXED

WATER WELL DRILLERS LOG

MAR. 29 1972 WATSON Co. De Soto
date well completed firm name county well located

LANDOWNER: <u>TWIN LAKES</u> <u>SUBDIVISION</u> <u>1/2 SOUTHAVEN LAND Co.</u>	description of formations encountered		from	to
<u>SOUTHAVEN, MISS.</u> (mailing address)	<u>SURFACE CLAY</u>		<u>0</u>	<u>41</u>
WELL LOCATION: sec. <u>6</u> T. <u>2</u> N. R. <u>8</u> E. <u>4 1/2</u> miles SW of <u>HORN LAKE</u> (distance) (direction) (nearest town)	<u>RED SAND WITH CLAY</u>			
WELL PURPOSE: <u>UTILITY</u> (home, irrigation, municipal, industrial)	<u>STREAKS AND FEW</u>			
WELL COMPLETION DATA:	<u>GRAVEL STREAKS</u>		<u>41</u>	<u>110</u>
(1) diameter (inches) <u>8"</u>	<u>ROCK</u>		<u>110</u>	<u>111</u>
(2) total depth (feet) <u>398'</u>	<u>CLAY (YELLOW)</u>		<u>111</u>	<u>113</u>
(3) static water level (feet) <u>101</u> below above top of ground.	<u>ROCK</u>		<u>113</u>	<u>114</u>
(4) casing <u>STEEL</u> <u>351' 3"</u> (material) (depth)	<u>BLUE CLAY</u>		<u>114</u>	<u>139</u>
(size) if telescope see back.	<u>ROCK</u>		<u>139</u>	<u>140</u>
(5) screen <u>40'</u> <u>351' 3"</u> (length) (depth to top)	<u>BLUE CLAY</u>		<u>140</u>	<u>173</u>
<u>6" I.D. STAINLESS STEEL</u> (size) (material)	<u>FINE SAND</u>		<u>173</u>	<u>192</u>
(6) <u>NOT</u> INSTALLED AT THIS (HP) TIME (field gpm) <u>ELEC.</u> (type power)	<u>MED. COARSE SAND</u>		<u>192</u>	<u>197</u>
(7) electric log <u>No</u> (yes or no)	<u>BLUE CLAY</u>		<u>197</u>	<u>204</u>
(organization running log)	<u>SAND & CLAY STKS.</u>		<u>204</u>	<u>220</u>
(8) how well bottom plugged <u>B.P. VALVE</u>	<u>SAND STK.</u>		<u>220</u>	<u>225</u>
DRILLERS REMARKS:	<u>BLUE CLAY WITH</u>		<u>225</u>	<u>313</u>
<u>PUMP TO BE INSTALLED</u>	<u>SAND STKS.</u>		<u>225</u>	<u>313</u>
<u>BY CARLOSS WELL</u>	<u>ROCK</u>		<u>313</u>	<u>314</u>
<u>SUPPLY Co.</u>	<u>BLUE CLAY</u>		<u>314</u>	<u>349</u>
	<u>SAND</u>		<u>349</u>	<u>356</u>
	<u>SAND</u>		<u>356</u>	<u>376</u>
	<u>SAND</u>		<u>376</u>	<u>396</u>
	<u>CLAY</u>		<u>396</u>	<u>400</u>
	<u>SAND</u>		<u>400</u>	<u>410</u>
	<u>CLAY</u>		<u>410</u>	<u>423</u>
	<u>CLAY</u>		<u>423</u>	<u>437</u>

RECEIVED
MAR 01 1996

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

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

Issued: <u>8-12-86</u>	Expires: <u>5-13-2006</u>	Fee Paid: <input checked="" type="checkbox"/>	Permit No. <u>GW-3213</u>
Lat. <u>34 56 51 N</u>	Long. <u>90 04 58 W</u>	Elev. <u>305'</u>	USGS No.
Quad. <u>Horn Lake</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): NEW PERMIT RENEWAL - PERMIT NO. 03213

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: NORTH MISSISSIPPI UTILITY COMPANY 64-0676172
(Name) (SSN or Tax ID No.)
P O BOX 362, 1481 BYHALIA ROAD
(Address)
HERNANDO MS 38632 (601) 429 - 9509
(City) (State & Zip) (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner):
(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):
NE 1/4 of the NE 1/4 of Section 6, Township 2 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: SPARTA MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170025
2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____.
If well has already been drilled, when was well completed (date)? APRIL 20, 19 72. Under whose name was well originally drilled (if known)? DESOTO UTILITY COMPANY
3. Description of proposed or completed well:
(a) DEPTH OF WELL: 400 feet. DRILLER: CARLOSS WELL SUPPLY ← Watson Co. drilled well
(b) SURFACE CASING: Length 352 feet; Diameter 8 inches; Type STEEL
(c) SCREEN: Length 42 feet; Diameter 6 inches; Type STAINLESS STEEL
(d) PUMP: Type VERT TURBINE Size 15 HP; Capacity 250 gallons per minute; Setting depth 140 feet
(e) POWER UNIT: Type _____; Size _____ horsepower
4. PERMITTED VOLUME :
(a) _____ acre-feet per year at a maximum rate of _____ gallons per minute
(b) 0.205 0.14 million gailons per day at a maximum rate of 250 250 gallons per minute
0.205 ALL 3-8-96 (CONTINUED ON BACK) 250

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? _____
- 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 710
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>242,000</u>	<u>2000</u>	<u>242,000</u>	<u>2005</u>	<u>245,000</u>	<u>2010</u>	<u>245,000</u>	<u>2015</u>
(Volume)	(Year)	(Volume)	(Year)	(Volume)	(Year)	(Volume)	(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:** _____

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

BILL J. ROBERSON
(Name)
P O BOX 362
(Address)
HERNANDO MS 38632
(City, State, Zip)
(601) 429-9509
(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.

Bill J. Roberson
(Signature)

Subscribed and sworn to before me this 28th day of Feb, 1996, at Hernando county of Mississippi
My commission expires March 23, 1998; Rhonda Robinson Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

SHB4 PEG
8-21-94
USER NAME(S): LAR/DEVS DATE: 7/26/96
UNIT DEQ #: 84090 FILE #: ~~150786180~~
HEALTH DEPT. #: 170025-02 ELEV. 304
USGS #: S05 F-30 OLWR #: MS-6W-03213
OWNER: DESOTO UTIL, TWIN LAKE (N. MS. UTILY Co.)
LOCATION: NW/NE/NE S 6 T 25 R 8W COUNTY: DESOTO
How Lt. Quad,
LOCATION DESCRIPTION: 60' South of Nail Rd.
CASING DIA: 10" PUMP TYPE & SIZE: Turbine 15HP
GPS FIELD LOCATION: LAT. 34.56857 N LONG. 90.04978 W
34° 56' .878" 90° 04' .982"
GPS CORRECTED LOCATION: LAT. 34.94765717 LONG. 90.08268861
REMARKS: .7 MI. EAST OF HWY 301 ON NAIL Rd. 60'
SOUTH OF NAIL Rd. SOUTH SIDE OF PLANT.

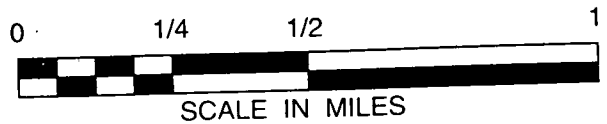
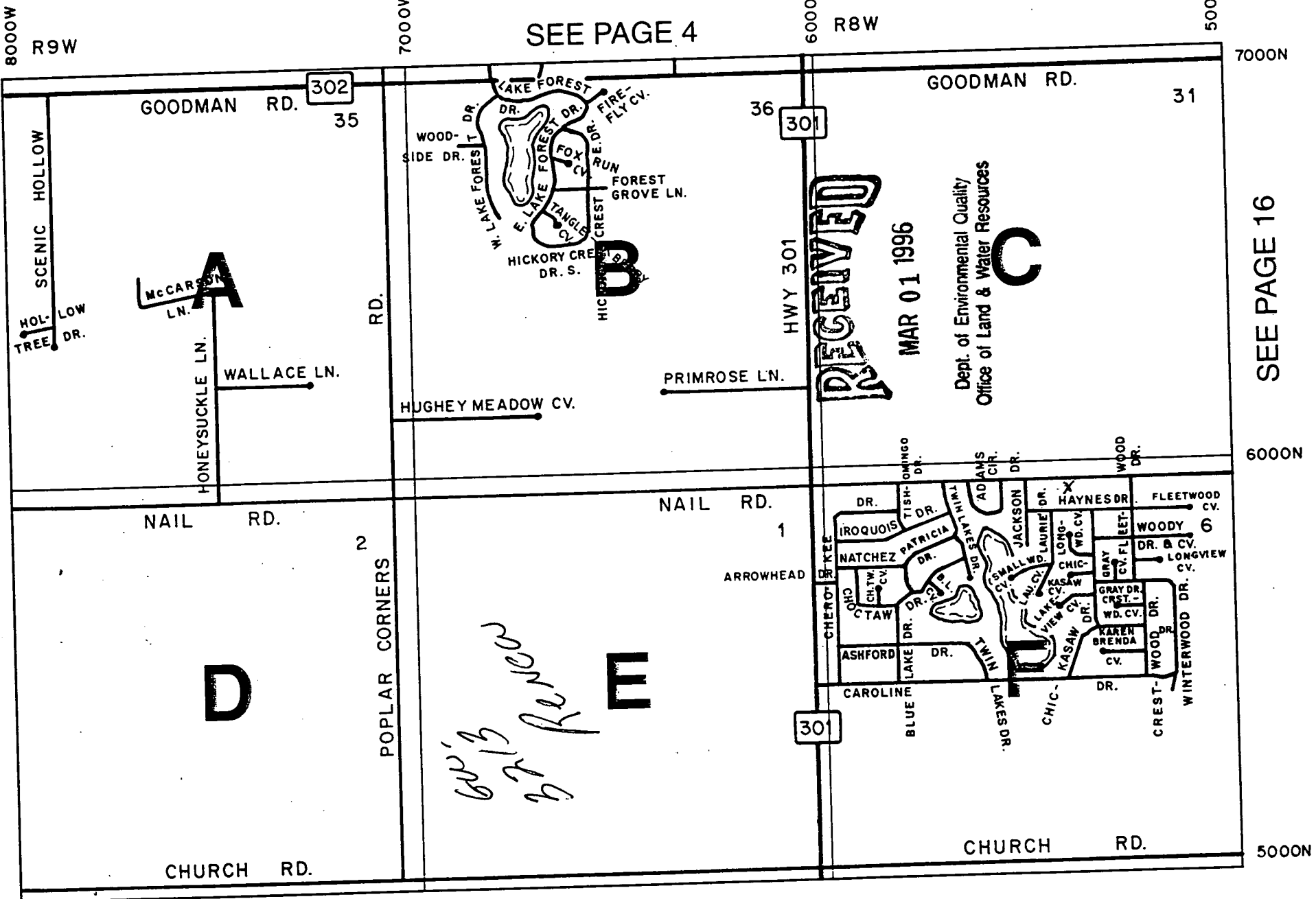
T1S SEE PAGE 14
T2S

SEE PAGE 4

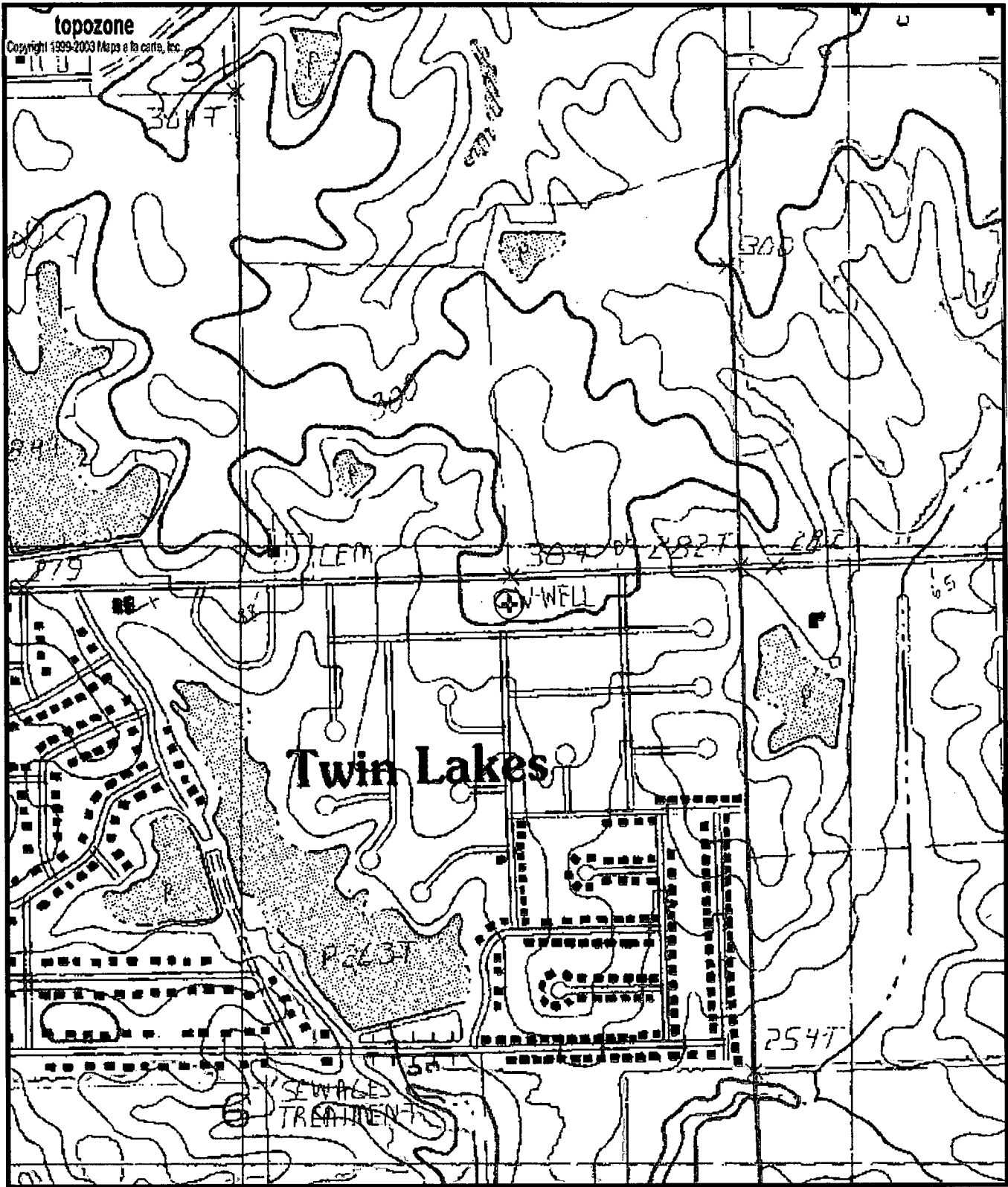
SEE PAGE 16

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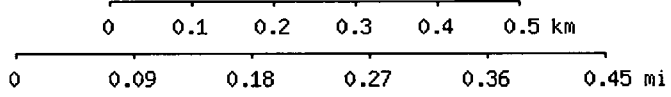
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Gw03213
F30



Map center is 34° 56' 52"N, 90° 04' 58"W (WGS84/NAD83)
Horn Lake quadrangle
 Projection is UTM Zone 15 NAD83 Datum

M=0.046
 G=1.673