GW3240 DOH #180008-08

WRD Exp. (GW)
April 1966

Well No. D5

WELL SCHEDULE

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

PUBLIC WATER SUPPLY
ROLLA COMPILATION BRANCH

MASTER CARD

Record by Jlc Source of data Date Map Hattiesburg

State 28 County (or town) 18

Latitude: 31 18 47 N Longitude: 089 17 02 Sequential number: 1

Lat-long accuracy: 3 T. 4 S, R. 13 W Sec. 15, NE ¼, NE ¼, ¼, ¼

Local well number: D 005 A 15 04 N 13 W Other number: #2 in Well Field #2 B & M

Local use: 064 464 13 Owner or name: City of Hattiesburg

Owner or name: HATTIESBURG Address: Plant #2 - back entrance

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

Use of water: (A) Air cond, (B) Bottling, (C) Comm, (D) Dewater, (E) Power, (F) Fire, (H) Dom, (I) Irr, (M) Med, (N) Ind, (P) P S, (R) Rec, (S) Stock, (T) Instit, (U) Unused, (V) Repressure, (W) Recharge, (X) Desal-P S, (Y) Desal-other, (Z) Other P

Use of well: (A) Anode, (D) Drain, (G) Seismic, (H) Heat Res, (Φ) Obs, (P) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed. W

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

Hyd. lab. data:

Qual. water data; type: USGS Complete 2-5-64 C

Freq. sampling: Φ Pumpage inventory: yes no, period:

Aperture cards: yes

Log data:

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: ft 678' Meas. rept accuracy 6

Depth cased: (first perf.) ft 676 Casing type: Steel ; Diam. 18"x12"x8" in 18 G

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

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

Date Drilled: 9 6 0 Pump intake setting: 200 ft 200

Driller: Layne Central Co. , name address

Lift (type): (A) air, (B) bucket, (C) cent, (J) jet, (L) multiple, (cent.), (M) multiple, (turb.), (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, (Z) other T Deep Shallow

Power (type): diesel, elec, gas, gasoline, hand, nat gas, wind, LP; H.P. 75 V Trans. or meter no.

Descrip. MP ft above below LSD, Alt. MP

Alt. LSD: 1 4 3 Accuracy: (source) 1

Water Level 19.75 ft above below MP; Ft above below LSD 20 Accuracy: A

Date meas: 12/21/64 D 64 Yield: gpm 1209 Method determined

Drawdown: ft Accuracy: Pumping period hrs 11

QUALITY OF WATER DATA: Iron .42 ppm 3 Sulfate 8.8 ppm 0 Chloride 1.6 ppm 0 Hard. 32 ppm 2

Sp. Conduct 184 K x 10^6 2 Temp. 72 °F 72 Date sampled 2 6 4

Taste, color, etc. Temp 72°F = 22.2°C pH = 6.6 Date Anal. 10-12-87

Well No. D5

Well No. 4

Latitude-longitude N S d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD (1–19) | Physiographic Province: 03 (20–21) | Section: | (26)

D (22) Drainage Basin: 13P (23–25) | Subbasin:

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, swamp, (Φ) (P) (S) (T) (U) (V) offshore, pediment, hillside, terrace, undulating, valley flat (27)

MAJOR AQUIFER: 122CTHL (system), (series) TM (28–29) aquifer, formation, group CA (30–31)

Lithology: US (32–33) Origin: 3 (34) Aquifer Thickness: ft

80 (35–37) Length of well open to: ft | 50 (38–40) Depth to top of: ft (41–43)

MINOR AQUIFER: (system), (series) (44–45) aquifer, formation, group (46–47)

Lithology: (48–49) Origin: (50) Aquifer Thickness: ft

(51–53) Length of well open to: ft | (54–56) Depth to top of: ft (57–59)

Intervals Screened: .08 Shutter Screen

Depth to consolidated rock: ft (60–63) Source of data: (64)

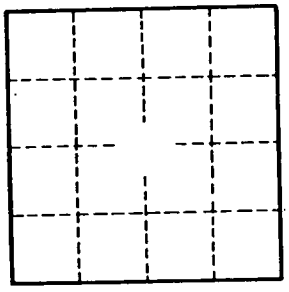
Depth to basement: ft (65–68) Source of data: (69)

Surficial material: (70–71) Infiltration characteristics: (72)

Coefficient Trans: 30,000 gpd/ft | 203 (73–75) Coefficient Storage: .0001 | 105 (76–78)

Coefficient Perm: 375 gpd/ft²; Spec cap: 13 gpm/ft; Number of geologic cards: (79)

See D4 for Well loc.



Well No. D5

GPO 857–700

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

Plant #2 Well #2

RECEIVED APR 05 1996

Dept. of Environmental Quality Office of Land & Water Resources

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. 2-11-97 AGN.

FORM OLWR-1

Issued: 8-26-86	Expires: 8-26-2006	Fee Paid: X	Permit No.
Lat. 31-18-55	Long. 89-16-53	Elev. 146	USGS No. D5
Quad. Hattiesburg	ASCS Farm No.	STAC.	MSDOH No.
Aquifer:	Tract No.		Basin No.
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): NEW PERMIT (RENEWAL - PERMIT NO. MS-GW-03240

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 Hattiesburg (Name) 64-6000432 (SSN or Tax ID No.)

P.O. Box 1898 (Address)

Hattiesburg, MS 39403-1898 (City) (State & Zip) (601) 545 .4500 (Telephone No.)

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

SAME (Name) _____ (SSN or Tax ID No.)

map sent

_____ (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 15, Township 04 N, Range 13W, County Forrest

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. MS-GW-03241,03242,03239,and 11694

SECTION B (to be completed for GROUNDWATER SOURCE)

1. **AQUIFER:** Catahoula **MISSISSIPPI DEPARTMENT OF HEALTH NO.:** 180008-08
2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____.
   If well has already been drilled, when was well completed (date)? _____, 19 60. Under whose name was well originally drilled (if known)? City of Hattiesburg
3. Description of proposed or completed well:
   (a) DEPTH OF WELL: 678 feet. DRILLER: Layne Central Company
   (b) SURFACE CASING: Length 600 feet; Diameter 12 inches; Type Steel
   (c) SCREEN: Length 50 feet; Diameter 8 inches; Type Slotted
   (d) PUMP: Type Turbine; Size 12"; Capacity 1200 gallons per minute; Setting depth 180 feet
   (e) POWER UNIT: Type Electric; Size 75 horsepower
4. **PERMITTED VOLUME:**
   (a) _____ acre-feet per year at a maximum rate of _____ gallons per minute
   (b) 1.7 million gallons per day at a maximum rate of 1200 gallons per minute

1.7 1200

(CONTINUED ON BACK)

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 15,300
   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? 9.2 MGD (Volume) 2001 (Year); 10.6 MGD (Volume) 2006 (Year); 12.2 MGD (Volume) 2011 (Year); 14.0 MGD (Volume) 2016 (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**: _____

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

Charles Henderson
(Name)

Water Plant #2, 900 James St.
(Address)

Hattiesburg, MS 39401
(City, State, Zip)

601-545-4530
(Telephone)

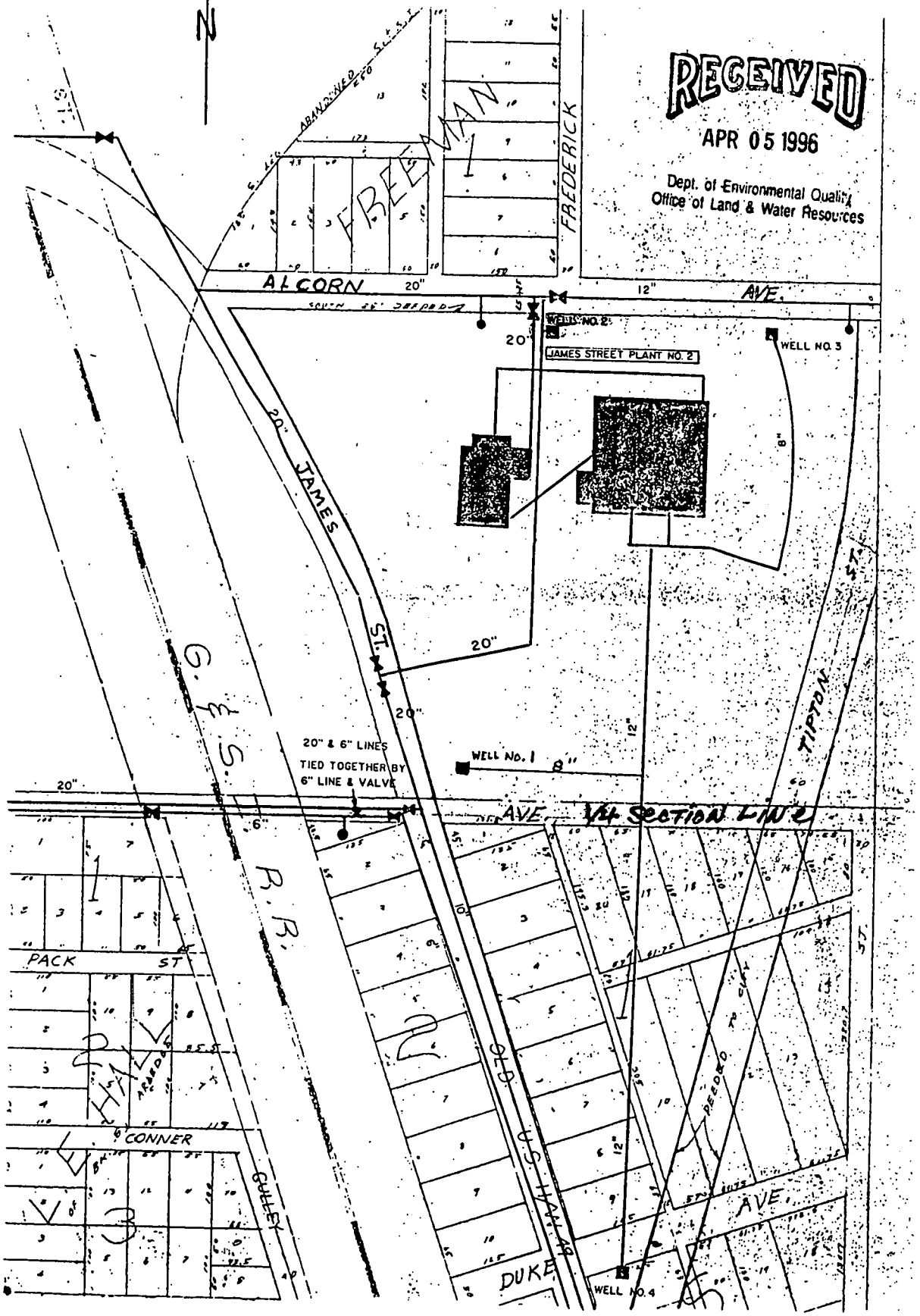
The accompanying map is hereby declared a part of this application.
For irrigation and fish culture use, an ASCS photograph is required.
The **TEN DOLLAR ($10.00) permit fee** is enclosed herewith.

_____
(Signature)

Subscribed and sworn to before me this 21st day of March, 1996, at Hattiesburg County of Forrest

My commission expires 8-23-96; Melinda M. Nixon Notary Public.

GW-3240 Renew



DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

Hattiesburg quad.

GPS LOG

USER NAME(S): C.A. Hornbeak DATE: 6/28/94

UNIT DEQ #: 82555 FILE #: C062820A

HEALTH DEPT. #: 180008-08 ELEV. 146

USGS #: 2-116 D5 OLWR #: 3240

OWNER: City of Hattiesburg

LOCATION: NE-NE-NE S 15 T 4N R 13W COUNTY: Forrest

LOCATION DESCRIPTION: At Back Entrance (Plant # 2)

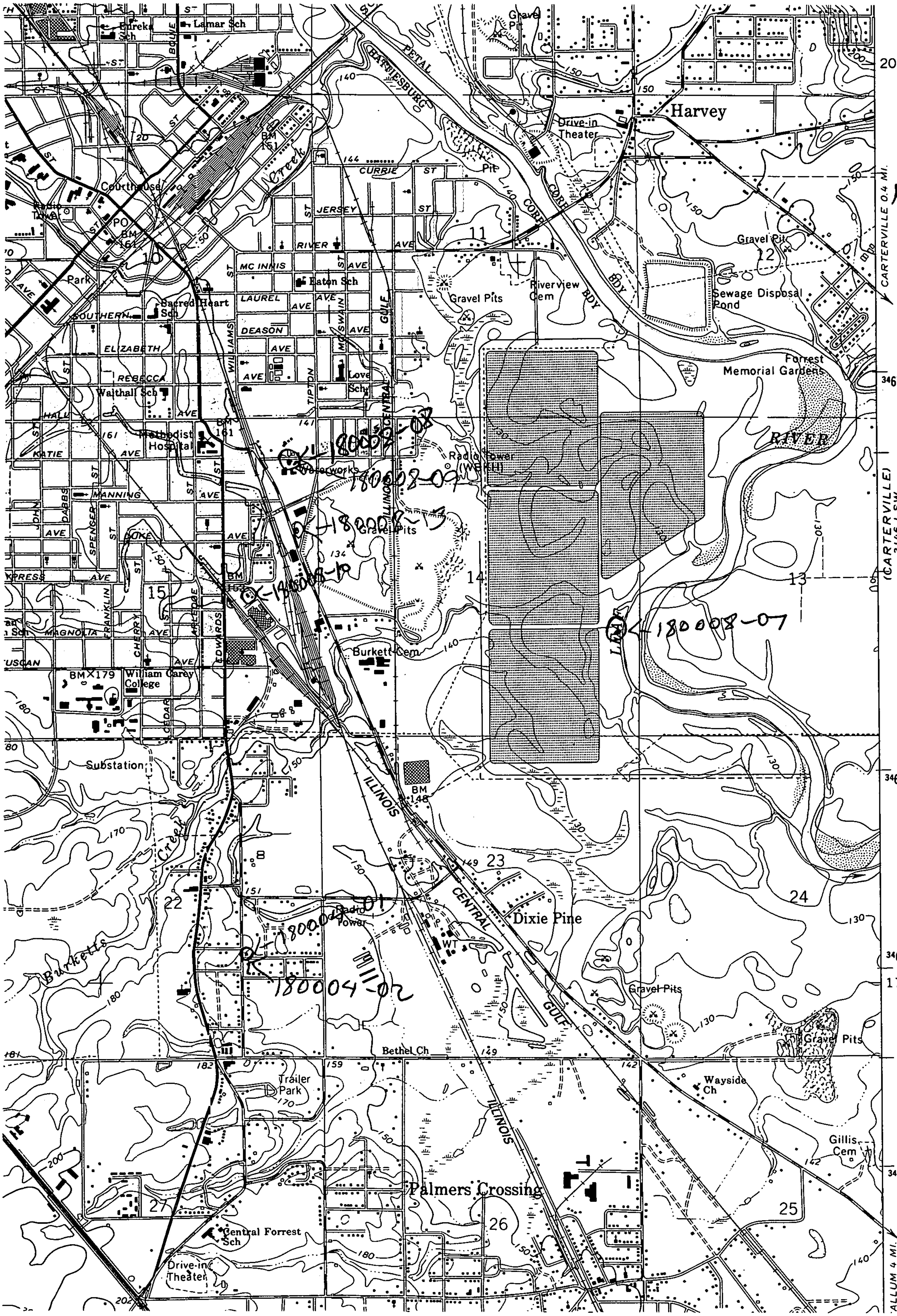
North of Bldgs. / North side of Yard.

CASING DIA: 18" PUMP TYPE & SIZE: 75 HP Elec.

GPS FIELD LOCATION: LAT. 31° 18.930 LONG. 89° 16.898

GPS CORRECTED LOCATION: LAT. 31 18 56.240 / 31.315626 LONG. 89 16 53.464 / 89.281520

REMARKS: GPS at well.



Harvey
Drive-in Theater
Gravel Pit
HATTIESBURG
PETAL
CORP BDY
Courthouse
Radio Tower
PO
BM 161
Park
Eureka Sch
Lamar Sch
BOUIE
CURRIE ST
JERSEY ST
RIVER AVE
MC INNIS AVE
Eaton Sch
LAUREL AVE
Sacred Heart Sch
SOUTHERN
DEASON AVE
ELIZABETH
REBECCA
Walthall Sch
Love Sch
HALL AVE
KATIE AVE
Methodist Hospital
MANNING AVE
EXPRESS AVE
MAGNOLIA AVE
TUSCAN AVE
William Carey College
BM×179
Gravel Pits
Riverview Cem
Sewage Disposal Pond
Forrest Memorial Gardens
RIVER
Radio Tower (WBKH)
Waterworks
Burkett Cem
Substation
ILLINOIS CENTRAL GULF
Dixie Pine
WT
Radio Tower
Bethel Ch
Wayside Ch
Gillis Cem
Trailer Park
Palmers Crossing
Central Forrest Sch
Drive-in Theater
Burketts Creek
CARTERVILLE 0.4 MI.
(CARTERVILLE) 3146 I SW
ALLUM 4 MI.
20′
17′30″
$^{34}67$
$^{34}65$
$^{34}64$
$^{34}63$
180008-08
180008-09
180008-13
180008-10
180008-07
180004-01
180004-02

Hattis Quad