

TRANSMITTED FOR ADF

Coded By Q 9/88
Checked By _____
Entered By _____
Date _____

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT

E-Log No. Z01
County FORREST
Agency _____

Well No. D111

WELL RECORD

Hattiesburg
Quad

Agency Code U S G S	Site Id 13111956108921037011	Project No. 51
Station Name 12 D11111 HATTIESBURG	Latitude 93111956	Longitude 10408921037
Lat/Long Ac. 11 S F T M	Dist 6=28	State 7=28
County 8=035	Land Net 13 S E S W S 10 6 1 T 10 4 N 1 R 1 13 W	
Location Map 14= HATTIESBURG	Altitude 16=2210	Met/Meas 17= A L M
	Accuracy 18= 15	Hydrologic Unit 20= 03117P101011

Agency Use 803= A I O	Date Inventoried 711= 08 / 31 / 11988	Station Type Y	Data Type 804=
Instru. 805=	Remarks 806=	Relia. 3= C L M U	2= W X

Date of Construction 21= 08 / 31 / 11988	Well Use 23= W	Water Use 24= P	Primary Aquifer 714= 122CTHLL	Hole Depth 27= 19211
Well Depth 28= 18101	Water Level 30= 109 / 18	Water Level Date 31= 11 / 11 / 11989	Method 34=	Status 37=
	Source 33= D			

CONSTRUCTION DATA

R=58	T=A	723#1	Construction Date 60= 11 / 11 / 11988	Contractor 63= 064	Name Loyne	Method 65= H	Finish 66= G
------	-----	-------	--	-----------------------	---------------	-----------------	-----------------

CONSTRUCTION CASING DATA

R=76	T=A	725#1	59#1	Top/Casing 77= 110	Bot/Casing 78= 1662	Diameter 79= 201
R=76	T=A	725#2	59#1	Top/Casing 77= 5917	Bot/Casing 78= 1685	Diameter 79= 101

CONSTRUCTION OPENINGS DATA

R=82	T=A	726#1	59#1	Top/Depth 83= 1685	Bot/Depth 84= 18101	Diameter 87= 1101	Type 85= G	Length 89=	Width 88=
R=82	T=A	726#2	59#1	Top/Depth 83=	Bot/Depth 84=	Diameter 87=	Type 85=	Length 89=	Width 88=

CONSTRUCTION LIFT DATA

R=42	T=A	254#1	Lift Type 43= T	Date 38= 11 / 11 / 11988	Intake 44=
Power 45= E	H.P. 46= 110101	Serial No. 49=			

MISCELLANEOUS OWNER DATA

R=158	T=A	718#1	Date of Ownership 159= 11 / 11 / 11988	Owner Name 161= HATTIESBURG
-------	-----	-------	---	--------------------------------

MISCELLANEOUS OTHER ID DATA

R=189	T=A	736#1	E-Log No. 190= 21011	Assigner 191= M I S S I D I S T
-------	-----	-------	-------------------------	------------------------------------

4th Street Well

MISCELLANEOUS QW DATA

R=192	T=A	738#1	Date of Measurement 1934 / /	Aquifer Sampled 195	Temp 196#00010	Value 197 24 10
R=192	T=A	738#2	Date of Measurement 1934 / /	Aquifer Sampled 195	Sp Cond 196#00095	Value 197
R=192	T=A	738#3	Date of Measurement 1934 / /	Aquifer Sampled 195	pH 196#00400	Value 197 71 77

MISCELLANEOUS LOGS DATA

R=198	T=A	739#1	Log Type 199#E *	Beg. Depth 200	End Depth 201
R=198	T=A	739#2	Log Type 199#D *	Beg. Depth 200	End Depth 201 192

MISCELLANEOUS NETWORK DATA

R=114	T=A	730#1	Beg. Year 115	End Year 116	Agency Source 120=A	Freq. 117#
R=121	T=A	730#2	Beg. Year 115	End Year 116	Agency Source 117#	Freq. 118#

MISCELLANEOUS REMARKS DATA

R=183	T=A	311#1	Date of Remarks 184 / /	Remarks 185
-------	-----	-------	----------------------------	----------------

DISCHARGE DATA

R=146	T=A	Pump Flow 147#1	Date 148 / / 9 8 8	Type 703#P	Discharge 150 / 1750	Sp. Capacity 272
-------	-----	--------------------	-----------------------	---------------	-------------------------	---------------------

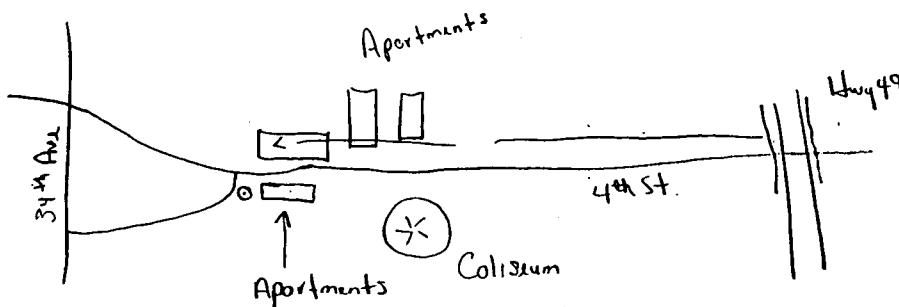
GEOHYDROLOGIC DATA

R=90	T=A	721#1	Depth Top 91 6170	Depth Bot. 92 171	Unit Id 93 1212KTHILI	304=P
------	-----	-------	----------------------	----------------------	--------------------------	-------

HYDRAULIC DATA

R=98	T=A	790#1	Unit Tested 100	103
------	-----	-------	--------------------	-----

(Permit # MSGW 08939)



Description of formations encountered	From	To
Brown Clay	0'	5'
White Clay	5'	12'
Brown Clay	12'	24'
Sandy Clay	24'	38'
Sand	38'	48'
Coarse Sand & Gravel	48'	50'
Sand	50'	54'
Clay	54'	63'
Fine Sand & Clay Strks	63'	68'
Sand	68'	70'
Clay	70'	71'
Sand	71'	76'
Fine Sand & Clay Strks	76'	82'
Lime	82'	84'
Rock	84'	85'
Clay & Lime Strks	85'	93'

Well #1
 Forrest
 D 111

MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
 Bureau of Land and Water Resources
 Southport Mall
 P.O. Box 10631
 Jackson, Mississippi 39209

WATER WELL DRILLERS LOG
 FORREST
 Layne Central Co. firm name
 Lemar county well located

11/11/88
 date well completed

LANDOWNER: City of
 Hattiesburg
 P.O. Box 1898

Hattiesburg, MS 39401
 (mailing address)

WELL LOCATION:
 sec. 6 T. 4 N. R. 13 E.
 S W

_____ miles _____ of _____
 (distance) (direction) (nearest town)

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

WELL COMPLETION DATA:

- (1) diameter (inches) 20"
- (2) total depth (feet) 804'
- (3) static water level (feet) 110' below top of ground.

(4) casing Steel 1062'
 (material) (depth)

20" If telescope see back.
 (size) 88' of 10"

(5) screen 115' 804'
 (length) (depth to top)

10" Stainless Steel
 (size) (material)

(6) pump 100 750
 (HP) (yield gpm)

Electrical
 (type power)

(7) electric log Yes
 (yes or no)

Layne Central Co.
 (organization running log)

(8) how well bottom plugged B.P.V.

description of formations encountered	from	to
Brown Clay	0'	5'
White Clay	5'	120'
Brown Clay	120'	240'
Sandy Clay	240'	380'
Sand	380'	460'
Coarse Sand & Gravel	460'	500'
Sand	500'	545'
Clay	545'	637'
Fine Sand & Clay Stks.	637'	680'
Sand	680'	704'
Clay	704'	717'
Sand	717'	764'
Fine Sand & Clay Stks.	764'	808'
Lime	808'	848'
Rock	848'	850'
Clay & Lime Stks.	850'	921'

79
 804'
 115'
 100
 750
 100
 750

DRILLERS REMARKS:
 Permit # MS-GW-08939

RECEIVED

02-10-98A09:30 RCVD

APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW FOR BENEFICIAL USE THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI FEB 10 1998

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES P.O. BOX 10631, Jackson, Mississippi 39207-0631; (601) 961-5202

Form with fields: Issued: 4-26-88, Expires: 4-28-2008, Fee Paid: X, Permit No., Lat. 31-19-56, Long. 89-20-27, Elev. 179, USGS No. D111, Quad. HATTIESBURG, STAC., MSDOH No., Aquifer: MOCN, Tract No., Basin No., Dam Inv. No., Remarks:

THIS APPLICATION IS FOR (Circle one): NEW PERMIT RENEWAL - PERMIT NO. MS-GW- 08939

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) 64-6000-432 (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):

MAP SENT

(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):

SE 1/4 of the SW 1/4 of Section 6, Township 04 N, Range 13 W, 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.

SECTION B (to be completed for GROUNDWATER SOURCE)

- 1. AQUIFER: Miocene MISSISSIPPI DEPARTMENT OF HEALTH NO.: 180008-12
2. Proposed work will begin on ... and will be completed by ...
3. Description of proposed or completed well: (a) DEPTH OF WELL: 700 804 feet. DRILLER: Layne Central Company (b) SURFACE CASING: Length 618 662 feet; Diameter 20 inches; Type Steel (c) SCREEN: Length 91 88 feet; Diameter 10 inches; Type Stainless Steel (d) PUMP: Type Turbine; Size 100; Capacity 1000 750 gallons per minute; Setting depth 200 feet (e) POWER UNIT: Type Electric; Size 100 horsepower
4. PERMITTED VOLUME: (a) ... acre-feet per year at a maximum rate of ... gallons per minute (b) 1.8 0.28 million gallons per day at a maximum rate of 1000 750 gallons per minute

88 (CONTINUED ON BACK) 2-25-98

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 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?

<u>9.1 MGD</u>	<u>2003</u>	<u>9.4 MGD</u>	<u>2008</u>	<u>9.7 MGD</u>	<u>2013</u>	<u>10.0 MGD</u>	<u>2018</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.

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 16th day of January, 1998, at Forest County of Mississippi
My commission expires My Commission Expires November 22, 1998 Judith A. Bray Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

Hattiesburg
quad.

GPS LOG

USER NAME(S): CA Hornbeak DATE: 6/29/94

UNIT DEQ #: 82555 FILE #: C062917B

HEALTH DEPT. #: 180008-12 (Tag missing) ELEV. 179

USGS #: Z-120 D111 OLWR #: 8939

OWNER: City of Hattiesburg

LOCATION SE-SE-SW S 6 T 4N R 13W COUNTY: Forrest

LOCATION DESCRIPTION: AT Intersection of 4th ST & N. 34 ST.
about 2/10 mi W of Coliseum.

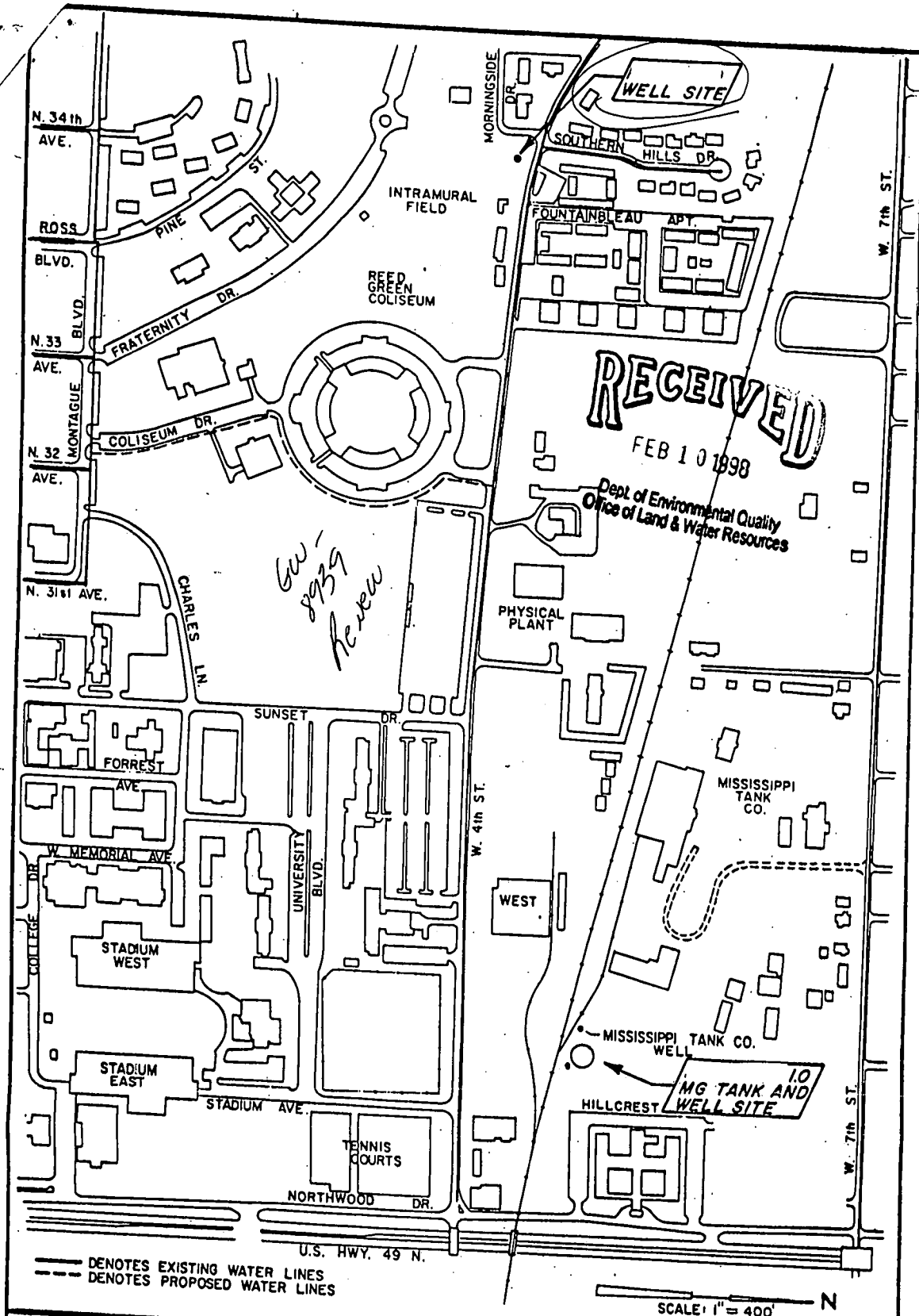
CASING DIA: 20" PUMP TYPE & SIZE: 100 HP Elec.

GPS FIELD LOCATION: LAT. 31° 19.936 LONG. 89° 20.448

GPS CORRECTED LOCATION: LAT. 31.1955.985 LONG. 89.20.25.922

REMARKS: GPS at well 31.332218 89.340534

NO TAG, But Desc. fit



TANK AND WELL SITE (ALT. 1)

FOR: CITY OF HATTIESBURG		
SURVEYED BY: N/A	PREPARED BY THE WALKER ASSOCIATES ENGINEERS ■ PLANNERS ■ DESIGNERS 2205 HARDY STREET P.O. BOX 189 HATTIESBURG, MISSISSIPPI 601-583-2127	DRAWN BY: CLINE: 10-1-87 SERIAL NO: 210-86 DRAWING NO: 1177
DATE:		

