

WELL SCHEDULE

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

MASTER CARD JAC DR. MGS 3/64
 Record by WTR Source of data Bowc Date 9/69 Map Crystal Springs
 State 28 County Copiah 15
 Latitude: 31 58 45 N Longitude: 09 02 20 W Sequential number: 15
 Lat-long accuracy: 20 20 25 NE SW SW
 Local well number: D 0 2 2 c c 2 5 0 2 N 0 2 W Other number: Osborn St. well
 Local use: 0 6 4 5 6 8 1 5 Owner or name: CRYSTAL SPRINGS
 Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist M
 Use of water: (A) (B) (C) (D) (E) (F) (H) (I) (M) (N) (P) (R)
(S) (T) (U) (V) (W) (X) (Y) (Z)
Stock, Inact, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other MU P
 Use of well: (A) (D) (G) (H) (I) (P) (R) (T) (U) (W) (X) (Z)
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: USGS
 Freq. sampling: Pumpage inventory: yes no period:
 Aperture cards: CRNL yes no
 Log data:

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 111 ft Meas. rept accuracy 3
 Depth cased: 91 ft Casing type: 30x12 Diam. 30
 Finish: porous concrete, gravel w. (perf.), gravel w. (screen), horiz. gallery, open end, perf., screen, sd. pt., shored, other G
 Method: (A) air bored, (B) cable, (C) dug, (D) rot., (H) hyd jetted, (J) air rot., (P) percussion, (R) rotary, (T) reverse, (U) trenching, (V) driven, (W) wash, other A
 Date Drilled: 2/61 9/61 Pump intake setting: 36 ft 38
 Driller: Jayne Central
 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 T Deep Shallow
 Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. Trans. or meter no. 41
 Descrip. MP 454 ft above LSD, Alt. MP 450 Accuracy: T
 Water Level: 70 ft above MP; 70 ft above LSD Accuracy: A
 Date meas: 10/67 8 7 1 Yield: 259 gpm Method determined 1
 Drawdown: 1 ft Accuracy: 1 Pumping period: 1 hrs
 QUALITY OF WATER DATA: Iron .03 ppm Sulfate 15 ppm Chloride 25 ppm Hard. 33 ppm
 Sp. Conduct 160 K x 10 2 Temp. 65 F Date sampled 9-1-61 9 6 1
 Taste, color, etc. pH 6.0

VERIFIED BRANCH

Well No.

D22

WELL SCHEDULE
 Latitude-longitude

HYDROGEOLOGIC CARD

Physiographic Province: 03 **Section:** _____

Drainage Basin: D **Subbasin:** 3

Top of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp
 (E) offshore, pediment, hillside, terrace, undulating, valley flat

MAJOR AQUIFER: 3 **Origin:** 2 **Thickness:** 35 ft

Length of well open to: 35 ft **Depth to top of:** 20 ft **Depth to bottom of:** 72 ft

MINOR AQUIFER: _____ **Origin:** _____ **Thickness:** _____ ft

Length of well open to: _____ ft **Depth to top of:** _____ ft

Intervals Screened: _____

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

Depth to basement: _____ ft **Source of data:** _____

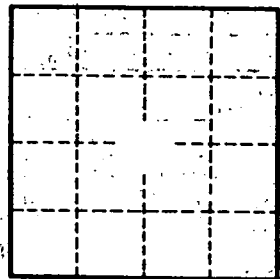
Surficial material: _____ **Infiltration characteristics:** _____

Coefficient Trans: 67,000 gpd/ft **Coefficient Storage:** _____

Coefficient Perm: 1900 gpd/ft²; Spec cap: 15 gpm/ft; **Number of geologic cards:** _____

8" pump 90' of skinn 200 gpm @ 30 psi
 239 30
 75' of 30" cong. 347 0
 91" 12" 319 10
 20' screen 277 20

Reverse flow well WL-62' (1967)



GW 2272 15003-03

2-19-96
 WH 54.9

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

RECEIVED

FEB 23 1996

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. 6-25-96 AGW. Dept. of Environmental Quality
Office of Land & Water Resources

Issued: <u>4-8-86</u>	Expires: <u>4-8-2006</u>	Fee Paid:	Permit No.
Lat. <u>31-58-45</u>	Long. <u>90-21-44</u>	Elev. <u>450</u>	USGS No.
Quad. <u>Crystal Springs</u>	ASCS Farm No.	STAC.	MSDOH No.
Aquifer: <u>CRNL</u>	Tract No.		Basin No. <u>03180002</u>
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): NEW PERMIT RENEWAL - PERMIT NO. MS-6W-02272

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 Crystal Springs 646000304
(Name) (SSN or Tax ID No.)
210 East Railroad Ave P.O. Box 473
(Address)
Crystal Springs Miss. 39059 (601) 892-1210
(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):
SW 1/4 of the SW 1/4 of Section 25, Township 2N, Range 2W, County Copeah

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: U/Miocene CRNL MISSISSIPPI DEPARTMENT OF HEALTH NO.: 150003-03

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, 1961. Under whose name was well originally drilled (if known)? Layne Central

3. Description of proposed or completed well:
(a) DEPTH OF WELL: 109 feet. DRILLER: Layne Central
(b) SURFACE CASING: Length 75 feet; Diameter _____ inches; Type Welded Black Steel
(c) SCREEN: Length 20 feet; Diameter 30 inches; Type Stainless Steel Shutters
(d) PUMP: Type Turbine; Size 8"; Capacity 270 gallons per minute; Setting depth 104 feet
(e) POWER UNIT: Type 45 Motor Hollowshaft; Size 15 horsepower

4. PERMITTED VOLUME:
(a) _____ ac-ft per year at a maximum rate of _____ gallons per minute
(b) 32750 .12 ac-ft per day at a maximum rate of 270 gallons per minute

(CONTINUED ON BACK)

Osborne St. Water Well

MAP SENT

.08

257

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. Description 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 6342 or (b) The number of connections is 2114
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>4,525 GPD</u>	<u>2001</u>	<u>4,567,760 GPD</u>	<u>2006</u>	<u>5,024,560 GPD</u>	<u>2011</u>	<u>5,526,960 GPD</u>	<u>2016</u>
(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:** _____

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

Robert J. Sims
(Name)
3411 W.B.R. Ave P.O. Box 151
(Address)
Crystal Springs Miss. 39059
(City, State, Zip)
601-892-4111
(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.

Robert J. Sims
(Signature)

Subscribed and sworn to before me this 17th day of FEBRUARY, 1996, at 9:58 County of CAPLAN

My commission expires MISSISSIPPI STATEWIDE NOTARY PUBLIC
MY COMMISSION EXPIRES AUG. 18, 1998
BONDED THRU STEGALL NOTARY SERVICE : Linda L. Easton Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): LAK / DKB DATE: 6/15/94

UNIT DEQ #: 82859 FILE #: A061716C

HEALTH DEPT. #: 150003-03 ELEV. 450

USGS #: D22 OLWR #: 2272

OWNER: Crystal Springs Water Service

LOCATION: NE/SW/SW S 25 T 2N R 2W COUNTY: Copiah

LOCATION DESCRIPTION: OSBORNE STR. well in front of House trailer.

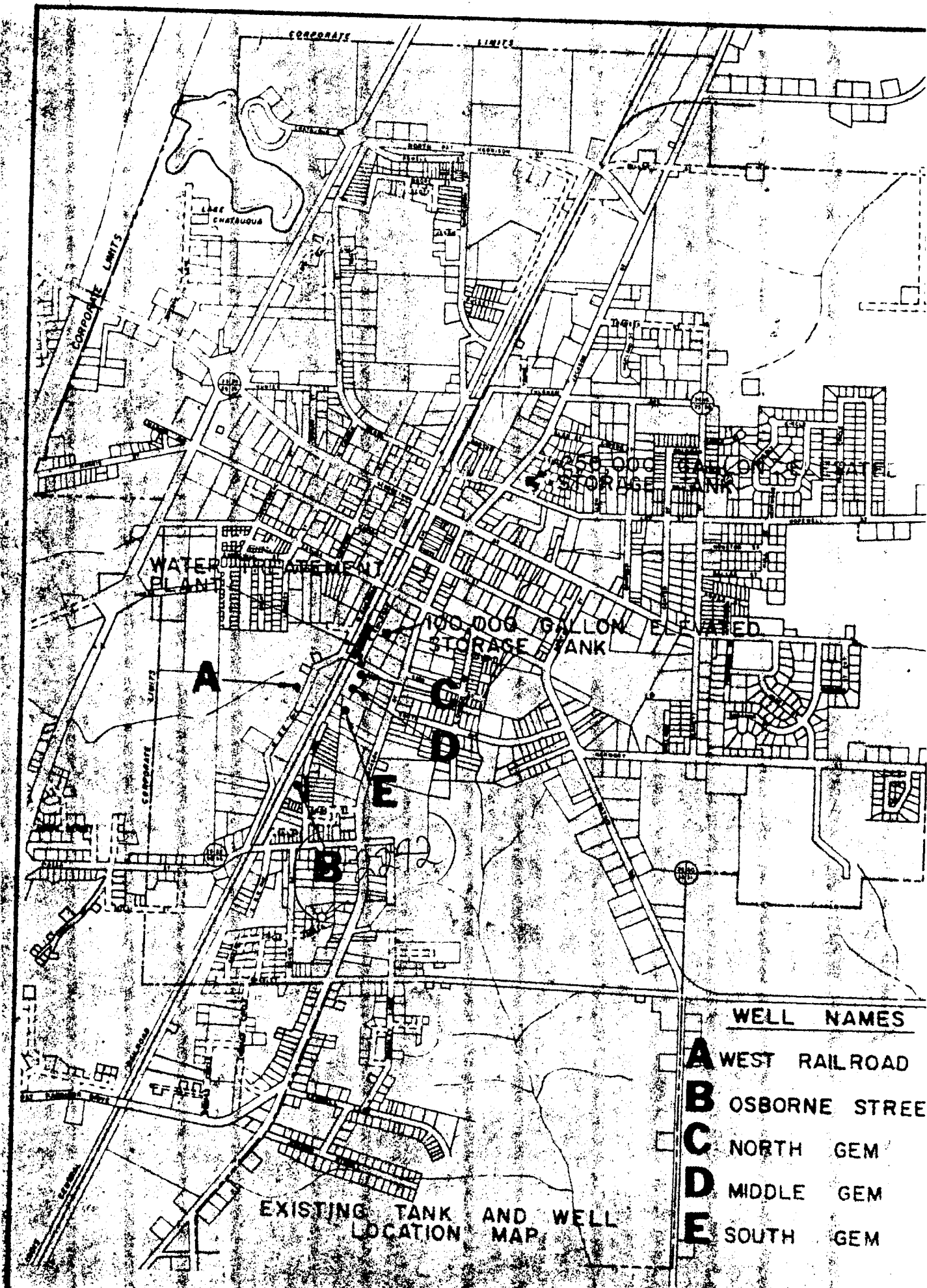
CASING DIA: 30" PUMP TYPE & SIZE: Turbine / 15

GPS FIELD LOCATION: LAT. 31-58-45 LONG. 90-21-45

GPS CORRECTED LOCATION: LAT. 31-58-45.510 LONG. 90-21-43.755

REMARKS: Go South on S JACKSON until you get to
Seibe turn left go .15 miles to ^{end} of
str. take left (N) turn to 4th drive on
West (left) side of Osborne.

Crystal Springs Quad.



WATER PLANT

1000 GALLON STORAGE TANK

- WELL NAMES**
- A** WEST RAILROAD
 - B** OSBORNE STREET
 - C** NORTH GEM
 - D** MIDDLE GEM
 - E** SOUTH GEM

EXISTING TANK AND WELL MAP

LEWIS - EATON

