

WELL SCHEDULE

8 Log # 13

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

PUNCHED and VERIFIED
ROLLA COMPUTATION BRANCH

MASTER CARD

C3=C, C5=SPRT

Record by WTD Source of data Obs-driller Date 6/69 Map CLARKSDALE 87B

State 8 28 County (or town) COAHOMA 14

Latitude: 34 12 22 N Longitude: 09 03 41 W Sequential number: 1

Lat-long accuracy: 2 T. 27 S. R. 4 Sec 13 SW t. SW t. SW t.

Local well number: J 060 CC 1 327 N 04 W Other number: Reservoir

Local use: 064013 Owner or name: CLARKSDALE Address: #12 DW

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

Use of water: (A) Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec, (S) Stock, Instic, Unused, Repressure, Recharge, Desal-F S, Desal-other, Other 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: Aperture cards:

Log data: E Log 5' - 669' DE

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 667 ft Meas. rept 3

Depth cased: 607 ft Casing type: Steel; Diam. 18x12 in 18

Finish: (C) porous concrete, (F) gravel w. concrete, (G) gravel w. (screen), (H) horiz. gallery, (I) open end, (J) perf., (K) screen, (L) sd. pt., (M) shored, (N) open hole, (O) other G

Method Drilled: (A) air rot., (B) bored, (C) cable, (D) dug, (E) hyd. rot., (F) jetted, (G) air perc., (H) reverse, (I) trenching, (J) driven, (K) wash, (L) other H

Date Drilled: 9-70 Pump intake setting: 36 ft

Driller: Layne Central, Memphis

Lift (type): (A) air, (B) bucket, (C) cent., (D) jet, (E) multiple, (F) multiple, (G) none, (H) piston, (I) rot., (J) submerg., (K) turb., (L) other T Deep Shallow

Power (type): (A) diesel, (B) elec., (C) gas, (D) gasoline, (E) hand, (F) gas, (G) wind, (H) H.P. 100 Trans. or meter no. W

Descrip. MP air vent at 2' below LSD ft above below LSD, Alt. MP 3

Alt. LSD: 44 ft above below MP; 44 ft below LSD Accuracy: topo

Water Level: 44 ft above below MP; 44 ft below LSD Accuracy: topo

Date meas: 4-70 Yield: 1000 gpm Method determined 61

Drawdown: 44 ft Accuracy: 44 ft Pumping period: 44 hrs

QUALITY OF WATER DATA: Iron 44 ppm Sulfate 44 ppm Chloride 44 ppm Hard. 44 ppm

Sp. Conduct 44 K x 10 Temp. 44 °F Date sampled 44

Taste, color, etc. 44

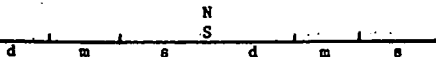
10/24/89
47.15

12/9/80
70
4.30
65.70
MP 2.0
63.70

Well No.

J60

Latitude-longitude



HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD

Physiographic Province: _____

03

Section: _____

E

Drainage Basin: _____

15H

Subbasin: _____

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

MAJOR AQUIFER:

system

series

T E

aquifer, formation, group

S S

Lithology: _____

V S

Origin: _____

3

Aquifer

Thickness: _____

76

ft

Length of well open to: _____ ft

77

60

Depth to top of: _____ ft

59

0

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: _____

12" s.s. Shutter

Depth to consolidated rock: _____ ft

Source of data: _____

Depth to basement: _____ ft

Source of data: _____

Surficial material: _____

Infiltration characteristics: _____

Coefficient Trans: _____

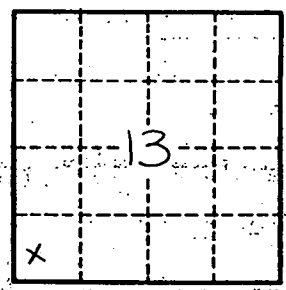
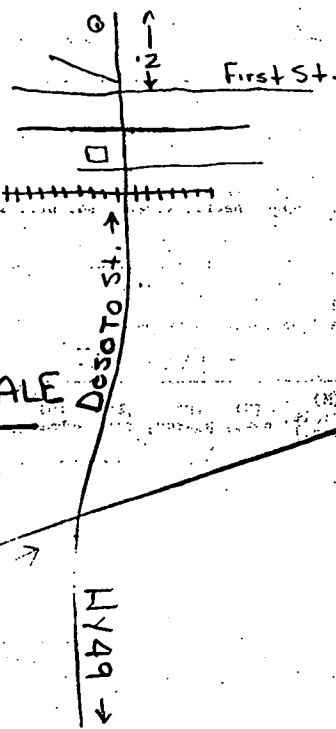
gpd/ft

Coefficient Storage: _____

Coefficient Perm: _____

gpd/ft²; Spec cap: _____

gpm/ft; Number of geologic cards: _____



CLARKSDALE

meas. water level
8-24-73 @ 1030
56.57

Well No.

J60

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): Crawford DATE: 8/6/96
UNIT DEQ #: _____ FILE #: A090615C
HEALTH DEPT. #: 140002-08 ELEV. 157
USGS #: D-060 OLWR #: MS-GW-04979
OWNER: City of Clarksdale #12
LOCATION: NW SW SW S 13 T 27 N R 4 W COUNTY: Cochoma
LOCATION DESCRIPTION: N End of City on DeSoto Av
CASING DIA: 18" PUMP TYPE & SIZE: Turbine
GPS FIELD LOCATION: LAT. 34.12.528 LONG. 90.34.209
GPS CORRECTED LOCATION: LAT. 34.20808157 LONG. 90.56954823
REMARKS: Clarksdale quad

RECEIVED

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

JUN 29 1998

06-29-98A09:50 RCVD

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES

P.O. Box 2000, Jackson, MS 39289-0631; (601) 961-5202

Dept. of Environmental Quality
Office of Land & Water Resources

This box is for office use only.

9-8-98 AGN

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

Table with 4 columns: Issued, Expires, Fee Paid, Permit No., Lat, Long, Elev, USGS No., Quad, 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. GW-04979

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: Members of St. Elizabeth Catholic Congregation unk (Name) 130 Florence Ave (Address) Clarksdale MS 38614 (601) 624 4301 (City) (State & Zip) (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner): Clarksdale Public Utilities 64-6011271 (Name) (SSN or Tax ID No.) P.O. Box 70 (Address) Clarksdale MS 38614 (601) 627 8403 (City) (State & Zip) (Telephone)

MAP SENT

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 13, Township 27N, Range 4W, County Coahoma

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: 661 foot aquifer MISSISSIPPI DEPARTMENT OF HEALTH NO.: 0140002-08

2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____.

If well has already been drilled, when was well completed (date)? 04-09, 19 70. Under whose name was well originally drilled (if known)? City of Clarksdale

3. Description of proposed or completed well:

- (a) DEPTH OF WELL: 667 feet. DRILLER: Layne Central
(b) SURFACE CASING: Length 596 feet; Diameter 18 inches; Type steel, grouted in pla
(c) SCREEN: Length 60 feet; Diameter 12 inches; Type stainless steel shutter
(d) PUMP: Type RKAH; Size 12; Capacity 1000 gallons per minute; Setting depth 155 feet
(e) POWER UNIT: Type U.S. (electric); Size 100 horsepower

4. PERMITTED VOLUME :

- (a) _____ gallons per minute
(b) 048 million gallons per day at a maximum rate of 1000 gallons per minute

(CONTINUED ON BACK)

48

1000

SECTION C (to be completed for SURFACE WATER SOURCE)

RECEIVED

- 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 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. _____

- 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 7353

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?

4.56MGD	2003	4.56MGD	2008	4.56MGD	2013	4.56MGD	2018
(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.

Philip A. Clark, Jr. Clarksdale Public Utilities

(Name) P.O. Box 70

(Address) Clarksdale, MS 38614

(City, State, Zip) 601-627-8490

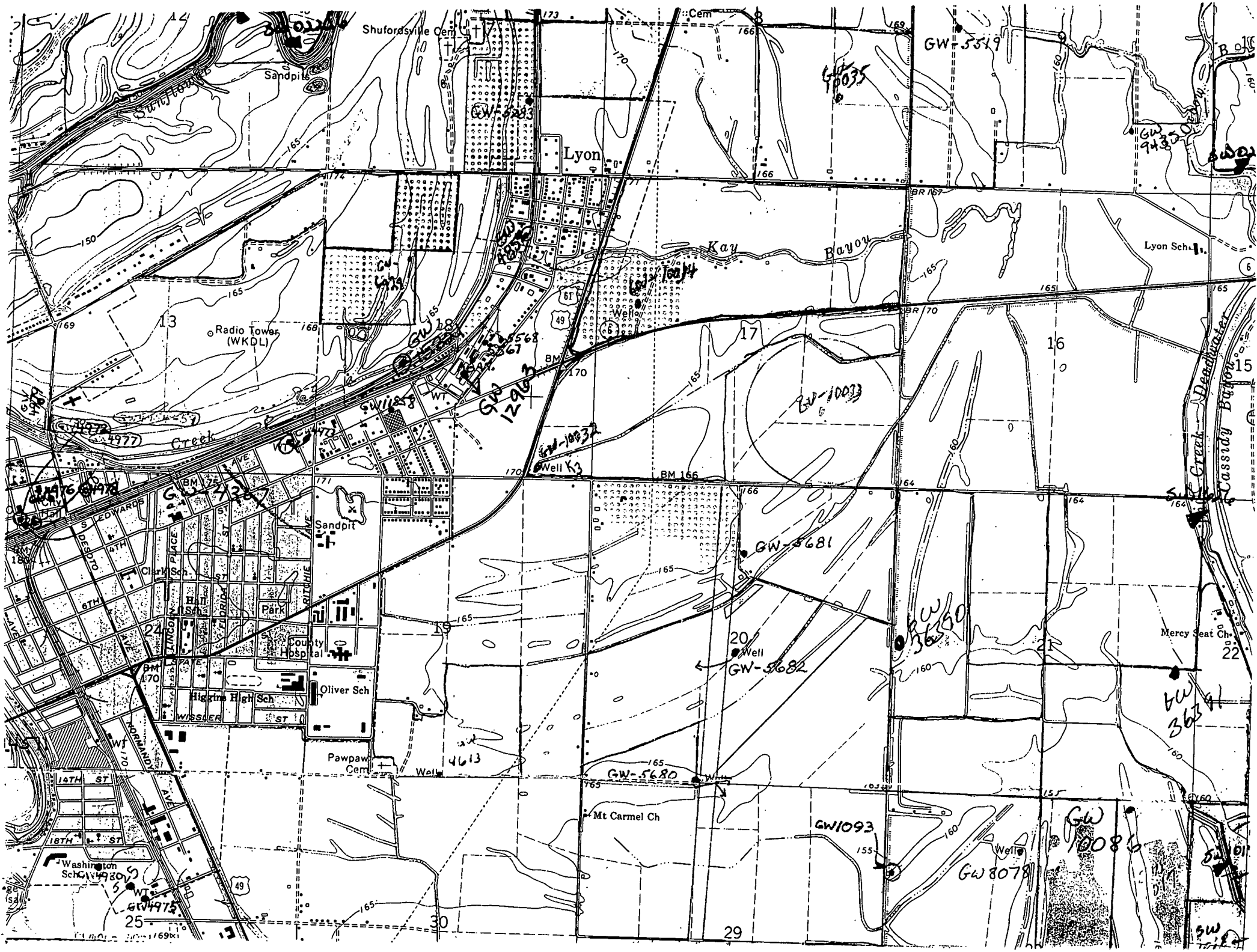
(Telephone)

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.

Philip A. Clark, Jr. (Signature)

Subscribed and sworn to before me this 20th day of June, 1998, at Clarksdale County of Oklahoma

My commission expires MISSISSIPPI STATEWIDE NOTARY PUBLIC MY COMMISSION EXPIRES DEC. 29, 2000 Patricia C. Branch Notary Public.





Clarksdale Public Utilities
 T. GW-04979-MSHD-0140002-08
 Deep Well #12



*GW
 4979
 Renew*

RECEIVED

JUN 29 1998

Dept. of Environmental Quality
 Office of Land & Water Resources