

WELL SCHEDULE

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

MASTER CARD

FEB 15 1973

1:24,000

Record by JCM Source of data BOWC Date 11-71 Map Clarksdale 876

State 28 County (or town) Coahoma 14

Latitude: 34 12 10 N Longitude: 09 03 41 S Sequential number: 1

Lat-long accuracy: 3 27 4 Sec 24 SW NW

Local well number: 064 Other number: #10

Local use: 064 Owner or name: City of Clarksdale Address: North Edwards Ave.

Owner or name: CLARKSDALE Address: Clarksdale

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

Use of water: (S) (T) (U) (V) (W) (X) (Y) (Z) P

Use of well: (A) (D) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) W

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

Hyd. lab. data:

Qual. water data; type:

Freq. sampling:  Pumpage inventory:  period:

Aperture cards:

Log data:

PUNCHED

CITY HALL behind

10/24/89  
 82.20  
 4/28/95  
 72.20

WELL-DESCRIPTION CARD

11/25/80  
 WL ↓ MP 71.93  
 MP - top of base - 2'  
 WL ↓ LSD - 69.73  
 170  
 70  
 100

SAME AS ON MASTER CARD Depth well: 69.1 Meas. rept accuracy 3

Depth cased: 62.1 Casing type: Steel Diam. in 1.8

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

Method: (A) air bored, (B) cable, (C) dug, (D) hyd jetted, (H) air rot., (J) percussive, (K) rotary, (L) reverse, (M) trenching, (N) driven, (O) drive wash, (P) other H

Date Drilled: 2-10-1967 Pump intake setting: 9.67 ft

Driller: Layne-Central

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

Descrip. MP 173 ft above LSD, Alt. MP 170 ft below LSD, Alt. MP 3

Alt. LSD: 170 Accuracy: (source) 3

Water Level: 68 ft above MP; 68 ft below LSD Accuracy: D

Date meas: 267 Yield: 1000 gpm Method determined 61

Drawdown: 62 ft Accuracy: 63 Pumping period 66 hrs

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

Sp. Conduct 73 K x 10<sup>6</sup> Temp. 74 °F Date sampled 77

Taste, color, etc. 79

Well No.

J68

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD

Physiographic Province: 0:3 Section: \_\_\_\_\_

Drainage Basin: D Subbasin: 15H

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 TE aquifer, formation, group SS

Lithology: US Origin: 2 Aquifer Thickness: 91 ft

Length of well open to: \_\_\_\_\_ ft Depth to top of: \_\_\_\_\_ ft

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"

Depth to consolidated rock: \_\_\_\_\_ ft Source of data: \_\_\_\_\_

Depth to basement: \_\_\_\_\_ ft Source of data: \_\_\_\_\_

Surficial material: \_\_\_\_\_ Infiltration characteristics: \_\_\_\_\_

Coefficient Trans: \_\_\_\_\_ gpd/ft<sup>2</sup> Coefficient Storage: \_\_\_\_\_

Coefficient Perm: \_\_\_\_\_ gpd/ft<sup>2</sup>; Spec cap: \_\_\_\_\_ gpm/ft; Number of geologic cards: \_\_\_\_\_

FEB 12 1953

WELL COMPLETION DATA:

- (1) diameter (inches) 18"
- (2) total depth (feet) 715'
- (3) static water level (feet) 68' below top of ground.
- (4) casing steel pipe 621' (material) (depth)
- if telescope see back. (size)
- (5) screen 70' 621' (length) (depth to top)
- 12" s.s. shutter (size) (material)

| description of formations encountered | from    |
|---------------------------------------|---------|
| Filling                               | 0-6     |
| clay                                  | 6-40    |
| sand-gravel                           | 40-132  |
| rock                                  | 132-137 |
| sand-gravel                           | 137-150 |
| clay                                  | 150-190 |
| sandy clay                            | 190-280 |
| sand                                  | 280-334 |
| clay+sand st.                         | 334-361 |
| hard clay                             | 361-384 |
| sandy clay                            | 384-450 |
| clay                                  | 450-474 |
| rock                                  | 474-476 |
| clay                                  | 476-620 |
| sand                                  | 620-656 |
| hard clay                             | 656-666 |
| sand                                  | 666-711 |
| hard gumbo                            | 711-722 |

|   |    |
|---|----|
| X |    |
|   | 24 |

Well No.

568

at old power plant  
North Edwards St  
behind City Hall

DATA SHEET-VERIFICATION CHECKLIST

COUNTY COAHOMA

CLARKSDALE QUAD

behind city hall  
(at old power plant)

WELL OWNER CLARKSDALE #10 Well CHECKED

U.S.G.S. NO. J-68 JWJ

B.O.H. NO 140002-06 JWJ

OLWR NO. \_\_\_\_\_

LOCATION:

MAP SW, NW, NW S 24, T 27 N, R 4 W JWJ

GPS \_\_\_\_\_

ELEV. (MSL) 173' JWJ

W.L. (L.S.) (1) - 72.2' 6-28-95 JWJ

(2) - 72.2' JWJ

HEAD (MSL) + 100.8' JWJ

SCREENED INTERVAL 621'-691' (LS) | - 448' - - 518' (MSL) JWJ

AQUIFER VERIFIED SPARTA JWJ

PREVIOUS W.L. - 82.20' (10/24/89) | - 69.93' (11/25/80) | - 68' (2/10/67) JWJ

DATA ENTERED \_\_\_\_\_



DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): Stewart / Everett DATE: 10/21/98

UNIT DEQ #: \_\_\_\_\_ FILE #: A102122C

HEALTH DEPT. #: 140002-06 ELEV. 170'

USGS #: 2-68 OLWR #: MS-GW-04977

OWNER: Clarksdale #10

LOCATION: SW NW NW S 24 T 27N R 4W COUNTY: Cookson

LOCATION DESCRIPTION: Behind Public Utility Bldg.  
in parking lot

CASING DIA: 18 PUMP TYPE & SIZE: Turbine

GPS FIELD LOCATION: LAT. 34°12.079 LONG. 90°34.226'

GPS CORRECTED LOCATION: LAT. 34.201604N LONG. 90.569723 W

REMARKS: Clarksdale 2nd

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**RECEIVED**

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

JUN 29 1998

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES

P. O. Box 200000, JACKSON, MS 39289-0631; (601) 961-5202  
Office of Land & Water Resources

This box is for office use only.

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

|                         |                          |                    |                    |
|-------------------------|--------------------------|--------------------|--------------------|
| Issued: <u>8-9-88</u>   | Expires: <u>9-8-2008</u> | Fee Paid: <u>X</u> | Permit No. _____   |
| Lat: <u>34-12-06</u>    | Long: <u>90-34-13</u>    | Elev: <u>170</u>   | USGS No. _____     |
| Quad: <u>Clarksdale</u> | ASCS Farm No. _____      | STAC. _____        | MSDOH No. _____    |
| Aquifer: <u>SPR1</u>    | Tract No. _____          |                    | Basin No. _____    |
| Remarks: _____          |                          |                    | Dam Inv. No. _____ |

THIS APPLICATION IS FOR (Circle one):  NEW PERMIT  RENEWAL - PERMIT NO. GW-04977

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 Clarksdale, Mississippi (Name) (SSN or Tax ID No.) \_\_\_\_\_  
P.O. Box 940 (Address)  
Clarksdale MS 38614 (City) (State & Zip) (Telephone No.) (601) 621-8100

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

Clarksdale Public Utilities (Name) (SSN or Tax ID No.) 64-6011271  
P.O. Box 70 (Address)  
Clarksdale MS 38614 (City) (State & Zip) (Telephone) (601) 627-8403

Location of diversion/withdrawal point (A suitable map with location marked must accompany this application):

NW 1/4 of the NW 1/4 of Section 24, 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. GW-04976 & GW-04978

**SECTION B** (to be completed for GROUNDWATER SOURCE)

- AQUIFER: 709 foot aquifer MISSISSIPPI DEPARTMENT OF HEALTH NO.: 0140002-06
- Proposed work will begin on \_\_\_\_\_, 19\_\_\_\_, and will be completed by \_\_\_\_\_, 19\_\_\_\_  
If well has already been drilled, when was well completed (date)? 02-10, 1987. Under whose name was well originally drilled (if known)? City of Clarksdale
- Description of proposed or completed well:
  - DEPTH OF WELL: 715 feet. DRILLER: Layne Central
  - SURFACE CASING: Length 621 feet; Diameter 18 inches; Type steel, grouted in place
  - SCREEN: Length 70 feet; Diameter 12 inches; Type stainless steel shutter
  - PUMP: Type RKAH; Size 12; Capacity 1000 gallons per minute; Setting depth 156' feet
  - POWER UNIT: Type G.E. (electric); Size 100 horsepower
- PERMITTED VOLUME:
  - 80 acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute
  - 0.48 million gallons per day at a maximum rate of 1000 gallons per minute

(CONTINUED ON BACK)

MAP SENT

48

000

RECEIVED

SECTION C (to be completed for SURFACE WATER SOURCES)

- 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  
 \_\_\_\_\_ 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 \_\_\_\_\_ 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) |
- 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.

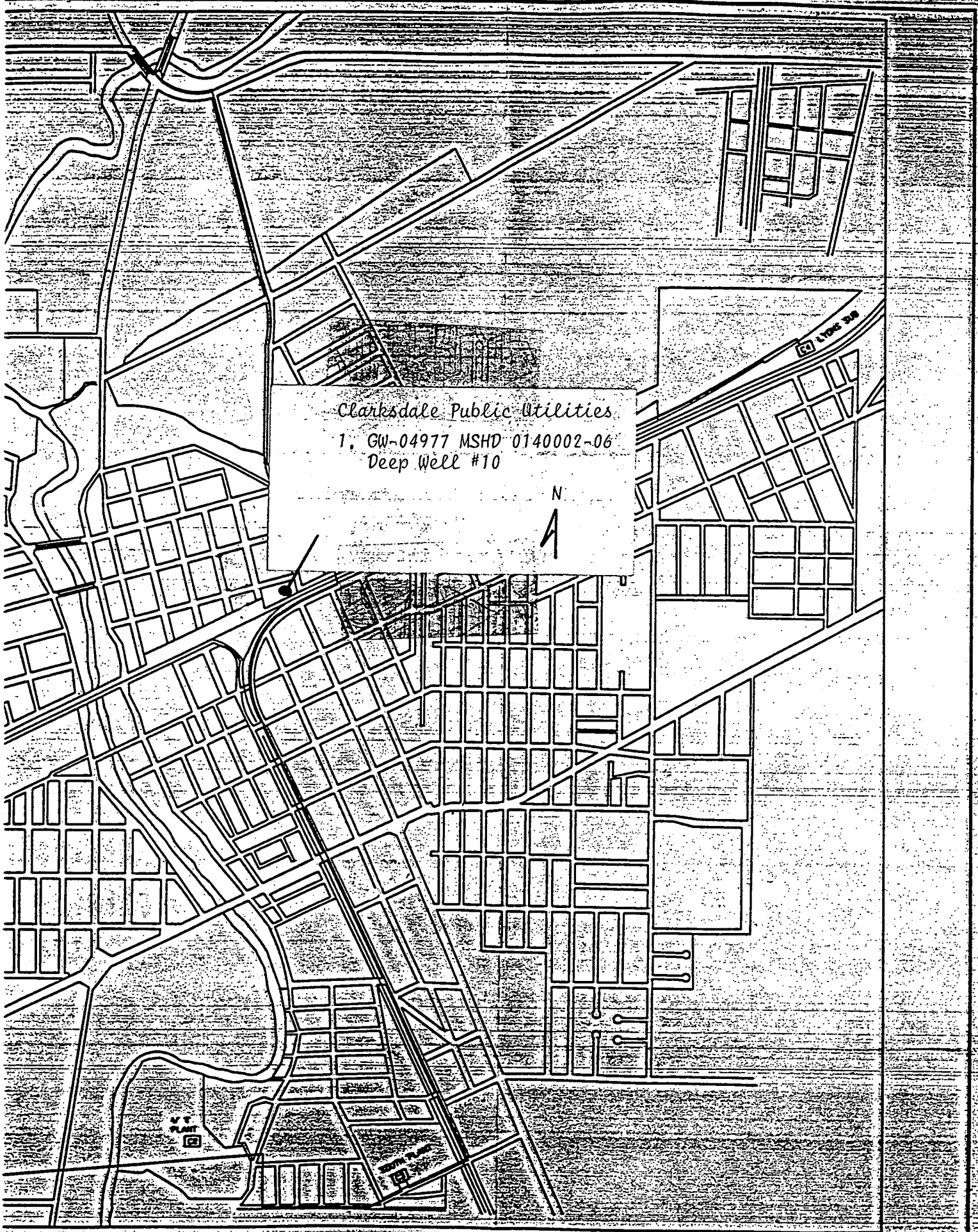
Philip A. Clark, Jr., Clarksdale Public Utilities  
 (Name)  
 P.O. Box 70  
 (Address)  
 Clarksdale, MS 38614  
 (City, State, Zip)  
 601-627-8490  
 (Telephone)

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 Coahoma

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



Clarksdale Public Utilities  
 1, GW-04977 MSHD 0140002-06  
 Deep Well #10



V.P. PLANT

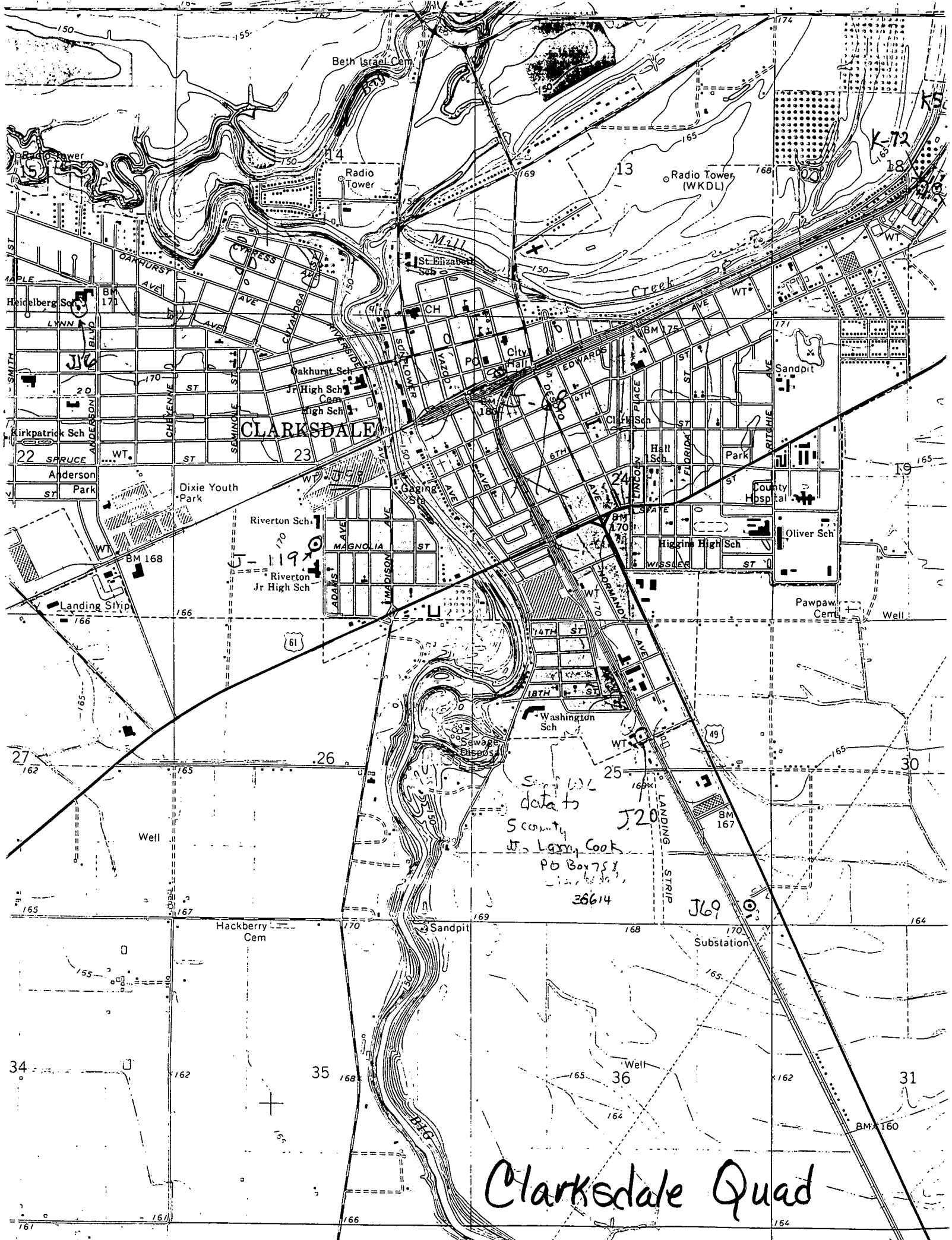
WATER PLANT

W. 10th St

|             |       |      |                  |
|-------------|-------|------|------------------|
| DATE        | BY    | CHKD | FILE NO.         |
| 01/11/01    | WJH   | WJH  | 16800-10000-0101 |
| DESCRIPTION | APP'D | DATE | DATE             |
|             |       |      | 01/01-E-01       |







**CLARKSDALE**

Send data to  
Security  
Lt. Larry Cook  
PO Box 751  
Clarksdale, MS  
38614

J69  
Substation

*Clarksdale Quad*