

6/78 WIO

GW 4857
DoH# 140010-01

TRANSMITTED FOR ADP

Clarksdale

Recorded by LAG

U.S. GEOLOGICAL SURVEY

Well No. K58

Date 9/1/78

WATER RESOURCES DIVISION

JUN 1979

E-Log No. 31

MISSISSIPPI DISTRICT

WELL RECORD

County COAHOMA

Site ID

341301090323401

R=0*

T=A*

2=W*

Data reliab.

3-C*

Report agency

4-USGS*

Dist.

6-28*

7-28*

Co.

8-027*

Lat.

Long.

9-341301*

10-0903234*

Well No.

12-K058*

Location

13-NW NE S 18 T 27 N R 03 W*

Alt.

16-170.*

Hyd. Unit (OWDC)

20-*

Date

21-08/30/1978*

Well use

23-W*

Water Use

24-P*

Hole depth

27-1231.*

Well depth

28-1226.*

WL

30-18.*

Date

31-09/23/1978*

Source

33-D*

Status

273-*

Project No.

5-*

R=158*

T=A*

Date

159-09/23/1978*

Owner No.

Well #4

Owner

161-LYONS*

R=192*

T=A*

Date

193# / / *

Temp.

196#00010*

197-*

R=192*

T=A*

Date

193# / / *

Cond.

196#00095*

197-*

R=192*

T=A*

Date

193# / / *

pH

196#00400*

197-*

R=58*

T=A*

59#1*

Date

60-09/23/1978*

Remarks

Drlg.

63-0.64*

Name

Layne Memphis

Method

65-H*

Finish

66-5*

R=76*

T=A*

59#1*

Top csng.

77# 0.*

Bot. csng.

78-1160.*

Diam.

79# 10.*

R=76*

T=A*

59#1*

Top csng

77# 10.68.*

Bot. csng.

78-1165.*

Diam.

79# 6.*

R=82*

T=A*

59#1*

Top

83# 1165.*

Bottom

84-1226.*

Type

85-S*

Diam.

87-6.*

Size

88-*

R=82*

T=A*

59#1*

Top

83# . . . *

Bottom

84- . . . *

Type

85-*

Diam.

87- . . . *

Size

88- . . . *

R=146*

T=A*

147#1*

Q

150-300.*

Q/S

272- . . . *

134 flows 146 pumped

LIFT

R=42* T= A * Lift type 43# T * Intake 44# * Power type 45# E *
 Date 38= 09/23/1978 * H.P. 46# 30. * *

LOGS

R=198* T= A * Log 199# D * Top 200= 0. * Bot 201= 1231. *
 R=198* T= A * Log 199# E * Top 200= 28. * Bot 201= 1218. *
 R=189* T= A * E Log No. 190# 031 * 191= M I S S D I S T * *

ANAL.

R=114* T= A * Year 115# * Type 120# * *

AQUIFERS

R=90* T= A * 256# 1 * Top 91= 1165. * Bot 92= 1231. *
 Unit ID 93= 124MUWX * Name of Unit
 R=90* T= A * 256# 1 * Top 91= * Bot 92= *
 Unit ID 93= * Name of Unit

HYDRAULICS

R=98* T= A * 99# 1 * Unit tested 100# * 103# *
 R=105* T= A * 99# 1 * Test No. 106# *
 107# * Transmissivity (gal/d)/ft
 108# * Hydraul. cond. (gal/d)/ft²
 110# * Storage coeff. Boundaries

R=121* T= * Yr Begin 122# * Network 258# * *

Water Level Data Collection (1)

rpt 10 gpm/ft

description of formations encountered	from	to
Clay	0	30
Sand and gravel	30	116
Rock	116	117
Sand and gravel	118	178
Gray Clay	178	184
Sand and Clay	184	252
Medium Sand	252	324
Lignite	324	335
Sand	335	345
Sand, Clay and lignite	345	514
Tough Clay and Stone	514	629
Sandy Clay & sand Sths.	629	691
Med. Coarse sand & Clay Sths	691	721
Clay	721	726
Med. Coarse Sand, Clay Sths	726	742
Clay	742	804
Sandy Clay & Rock	804	864
Sandy Shell & Rock	864	925
Hard Shell & Rock	925	962
Med. Fine Sand, Clay Sths	962	987
Clay & Sand Sths.	987	1018
Clay & Sandy Clay Sths.	1018	1049
Fine Sand & Clay & xh.	1049	1132
Clay & Sand Sths.	1132	1159
Med. Sand & clay Sths.	1159	1371

WILCOX DATA SHEET-VERIFICATION CHECKLIST

COUNTY Coahoma

Clarksdale Quad
U.S.G.S. E-105 # 31

WELL OWNER Town of Lyon #4 (beneath elev. tank)

CHECKED

U.S.G.S. NO. K58

10/24/94

B.O.H. NO. 0140010-01

11/18/94

OLWR NO. MS-GW 04857

11/18/94

LOCATION:

Irrig Sect. - loc. based on SE corner of sect of origin

MAP NW, NW, SE, NE S 18, T 27N, R 3W

10/24/94

GPS C072913A

ELEV. (MSL) 170'

10/24/94

W.L. (L.S.) (1) 45.00 - 11.33 = 33.67 - 1.50 = 32.17 ✓

10/24/94

(2) 35.00 - 1.42 = 33.58 - 1.50 = 32.08

10/24/94

HEAD (MSL) + 137.83'

10/24/94

SCREENED INTERVAL 1,165' - 1,226' (LS) / - 995' - 1,056' (MSL)

10/24/94

AQUIFER VERIFIED MERIDIAN-UPPER WILCOX

10/24/94

PREVIOUS W.L. - 18' (1978)

10/24/94

DATA ENTERED _____

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): Grantham DATE: 5-7-97
UNIT DEQ #: _____ FILE #: B050718A
HEALTH DEPT. #: 140010-01 ELEV. 174
USGS #: K-058 OLWR #: MS-6W-04857
OWNER: Town of Lyon
LOCATION: SE, NW, NE S 18 T 27N R 03W COUNTY: Coahoma
LOCATION DESCRIPTION: Adj to E1 Tank

CASING DIA: _____ PUMP TYPE & SIZE: _____
GPS FIELD LOCATION: LAT. 34.12564 LONG. 90.3233.6
GPS CORRECTED LOCATION: LAT. 34.215645 LONG. 90.54267911
REMARKS: Clarksdale Quad

RECEIVED

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

SEP 11 1998

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES

Box 10631, JACKSON, MS 39289-0631; (601) 961-5202

This box is for office use only.

11-10-98 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. MS-GW-04857

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: TOWN OF LYON (Name) 69 0650707 (SSN or Tax ID No.)

P. O. BOX 511 (Address)

LYON MS 38645 (601) 627 - 1600 (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):

NW 1/4 of the NE 1/4 of Section 18, Township 27N, Range 03W, 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: MERIDIAN-UPPER WILCOX MISSISSIPPI DEPARTMENT OF HEALTH NO.: 0140010

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

If well has already been drilled, when was well completed (date)? 9/23/1978 Under whose name was well originally drilled (if known)? TOWN OF LYON

3. Description of proposed or completed well:

(a) DEPTH OF WELL: 1231 feet. DRILLER: LAYNE CENTRAL

(b) SURFACE CASING: Length 1160 feet; Diameter 10 inches; Type STEEL

(c) SCREEN: Length 061 feet; Diameter 6 inches; Type STAINLESS STEEL-Wirewr

(d) PUMP: Type VERT. TURBINE, Size 8; Capacity 300 gallons per minute; Setting depth 90 feet

(e) POWER UNIT: Type ELECTRIC; Size 30 horsepower

4. PERMITTED VOLUME:

(a) _____ gallons per year at a maximum rate of _____ gallons per minute

(b) 05 .08 million gallons per day at a maximum rate of 300 gallons per minute

(CONTINUED ON BACK)

NO MAP

SECTION C (to be completed for **SURFACE WATER SOURCE**)

05/13/99

- 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 _____

- Method of Irrigation (circle one) - Center Pivot Flood Furrow
- Land Condition (circle one) - Precision Land Formed Smoothed
- 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 421 or (b) The number of connections is 183
 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>75,000</u>	<u>2003</u>	<u>75,000</u>	<u>2008</u>	<u>75,000</u>	<u>2013</u>	<u>75,000</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.

Mrs. Beckey West
(Name)
P. O. Box 511
(Address)
Lyon, MS 38645
(City, State, Zip)
601-627-1600
(Telephone)

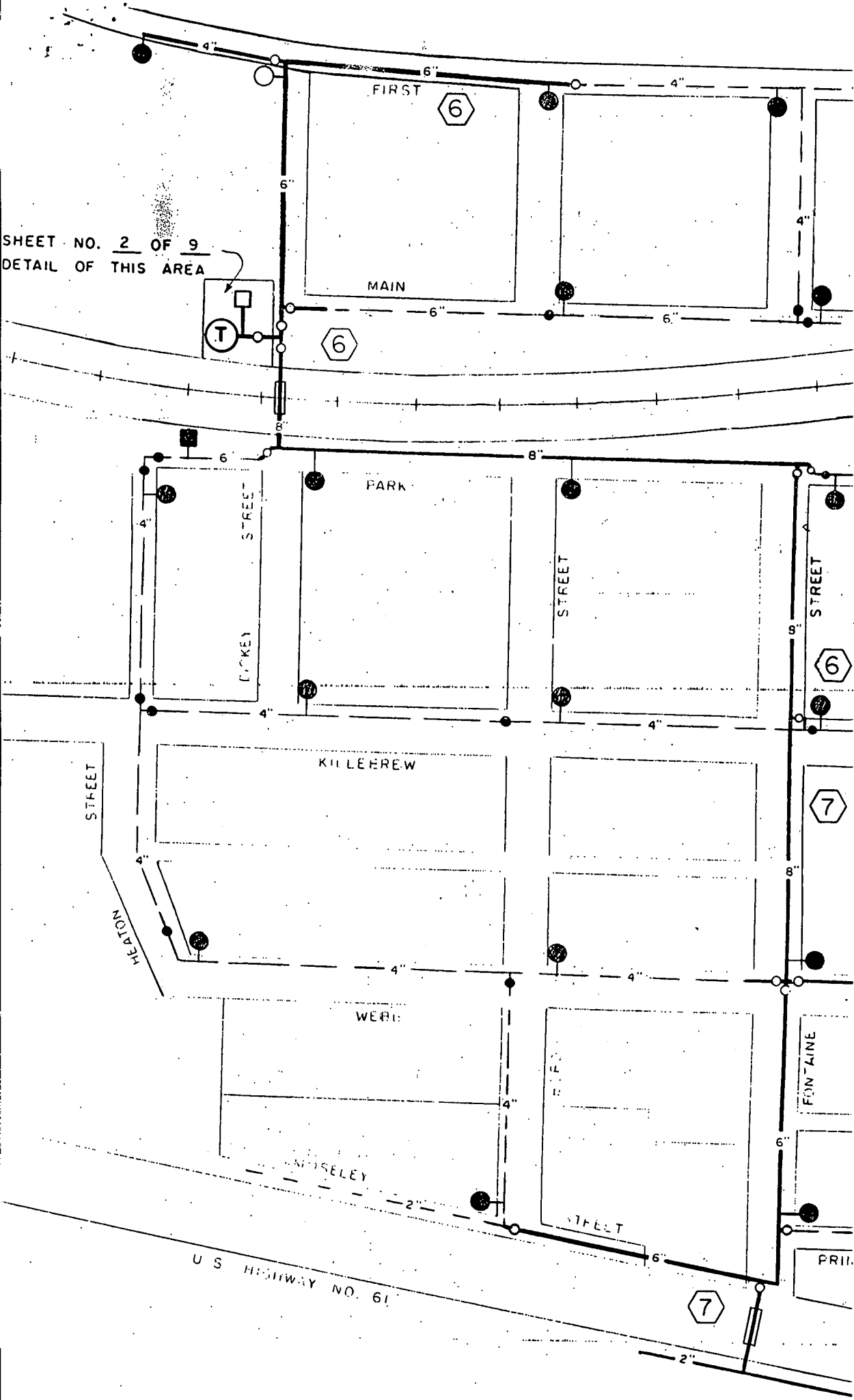
The accompanying map is hereby declared a part of this application. For irrigation and fish culture use, an ASCS photograph is required. The TEN DOLLAR (\$10.00) permit fee is enclosed herewith.

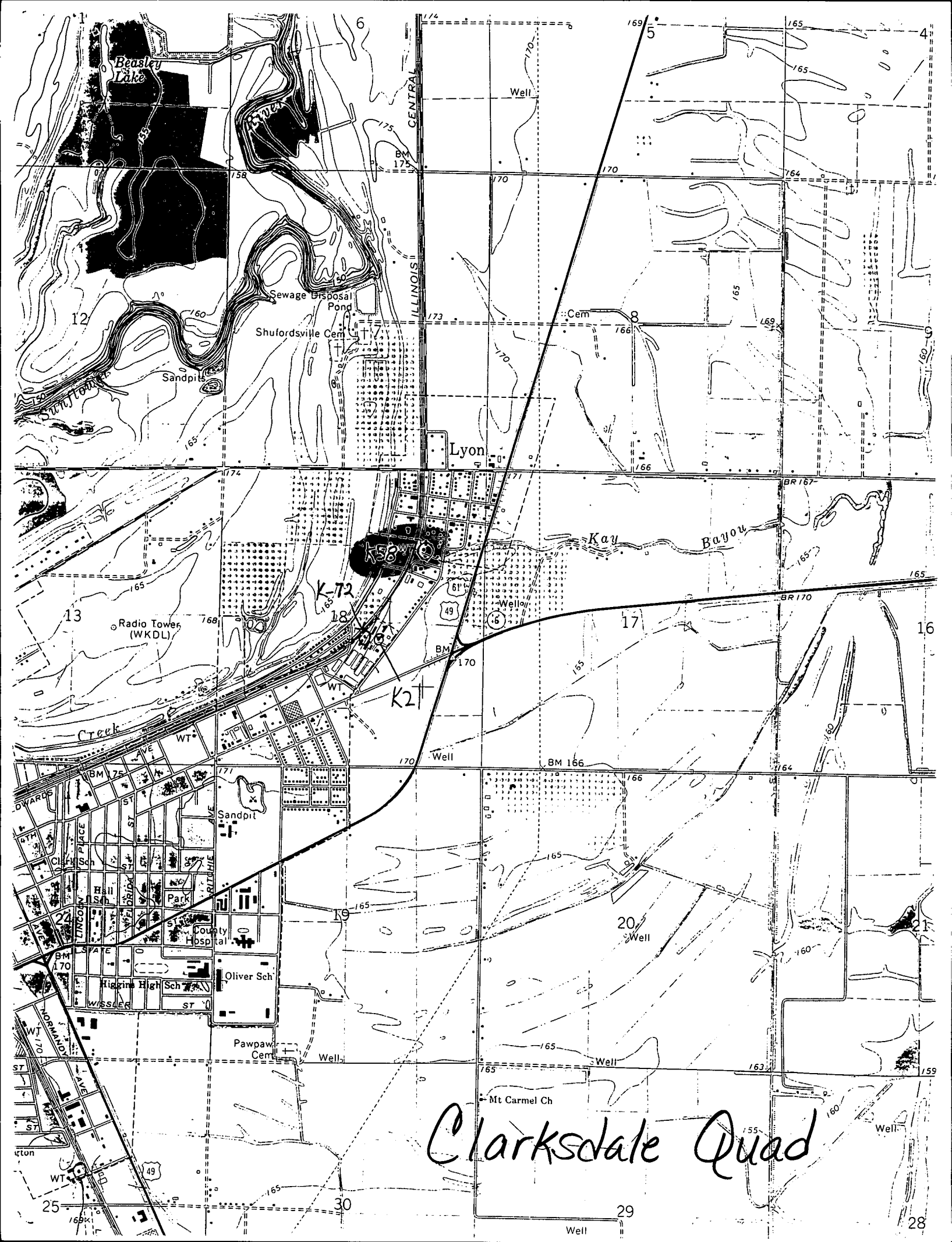
Beckey G. West
(Signature)

Subscribed and sworn to before me this 19th day of August, 1998, at Coahoma County of Mississippi

My commission expires April 16, 1999; Marilyn K. Gibbs Notary Public.

SHEET NO. 2 OF 9
DETAIL OF THIS AREA





Clarksville Quad