MS-GW-04866
DOH # 140001-01

FORM 9-1642
(1-68)

Well No. H 7

Elog # 18 87A

SITE ID-340759090403901

WELL SCHEDULE

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

JCM

BOWC

PUNCHED

MASTER CARD

Record by Ø Source of data Obs driller Date 10-29-71 Map CLARKSDALE QUAD

MAR 3 1975

State 28 County (or town) COAHOMA 14

Latitude: 34 07 59 N Longitude: 090403 9 Sequential number: 1

Lat-long accuracy: 2 T. 26 N S, R 5 W E Sec N 14, SE¼, SE¼, NE¼ B & M

Local well number: H 00 7 D D 1 1 26 N 05 W Other number:

Local use: 00201 8 23 Owner or name:

Owner or name: BOBO WA Address: Bobo, Miss.

Ownership: (C) County, (F) Fed Gov't, (M) City, (N) Corp or Co, (P) Private, (S) State Agency, (W) Water Dist N

Use of water: (A) Air cond, (B) Bottling, (C) Comm, (D) Dewater, (E) Power, (F) Fire, (H) Dom, (I) Irr, (M) Med, (N) Ind, (P) P S, (R) Rec, (S) Stock, (T) Instit, (U) Unused, (V) Repressure, (W) Recharge, (X) Desal-P S, (Y) Desal-other, (Z) Other P

Use of well: (A) Anode, (D) Drain, (G) Seismic, (H) Heat Res, (O) Obs, (P) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed. W

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

Hyd. lab. data: ☐

Qual. water data; type: 11/71 MSBOH P

Freq. sampling: ☐ Pumpage inventory: yes / no, period: ☐

Aperture cards: yes ☐

Log data: Elog 118' - 1310' D E

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 1208 ft 1200 Meas. rept 3

Depth cased: (first perf.) ft 1160 Casing type: ; Diam. 6x4 accuracy in 6

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

Method Drilled: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd rot., (J) jetted, (P) air percussion, (R) reverse rotary, (T) trenching, (V) driven, (W) drive wash, (Z) other ☐

Date Drilled: 10/71 9711 Pump intake setting: ft 50

Driller: Robert RATLIFF name, Grenada, Miss. address

Lift (type): (A) air, (B) bucket, (C) cent, (J) jet, (L) multiple (cent.), (M) multiple (turb.), (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, (Z) other T Deep ☐ Shallow ☐

Power (type): diesel, elec, gas, gasoline, hand, nat gas, LP gas, wind; H.P. 10 U Trans. or meter no.

Descrip. MP ft above/below LSD, Alt. MP

Alt. LSD: 1160 Accuracy: (source) topo 4

Water Level ft above/below MP; Ft above/below LSD 7 Accuracy: D

Date meas: 3 7 2 Yield: @ 87 Gpm 110 Method determined 4

Drawdown: ft 46 Accuracy: Pumping period @ 110 gpm hrs 9

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

Sp. Conduct 720 K x 10^6 4 Temp. 76 °F 245 Date sampled 272

Taste; color, etc. MSBOH pH 9.5, Fe .15 Hard. 9

Well No.

Well No. _____

Latitude-longitude N S d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD (1–19)

Physiographic Province: _____ 03 (20–21) Section: _____

D (22) Drainage Basin: _____ 15H (23–25) Subbasin: _____ (26)

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (Φ) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat _____ (27)

MAJOR AQUIFER: _____ system, _____ series TE (28–29) _____ aquifer, formation, group MW (30–31)

Lithology: 20' of real coarse sd US (32–33) Origin: _____ 2 (34) Aquifer Thickness: 160 ft

160 (35–37) Length of well open to: _____ ft 40 (38–40) Depth to top of: 1140 ft (41–43)

MINOR AQUIFER: _____ system, _____ series (44–45) _____ aquifer, formation, group (46–47)

Lithology: _____ (48–49) Origin: _____ (50) Aquifer Thickness: _____ ft

(51–53) Length of well open to: _____ ft (54–56) Depth to top of: _____ ft (57–59)

Intervals Screened: 4" SS.

Depth to consolidated rock: _____ ft (60–63) Source of data: _____ (64)

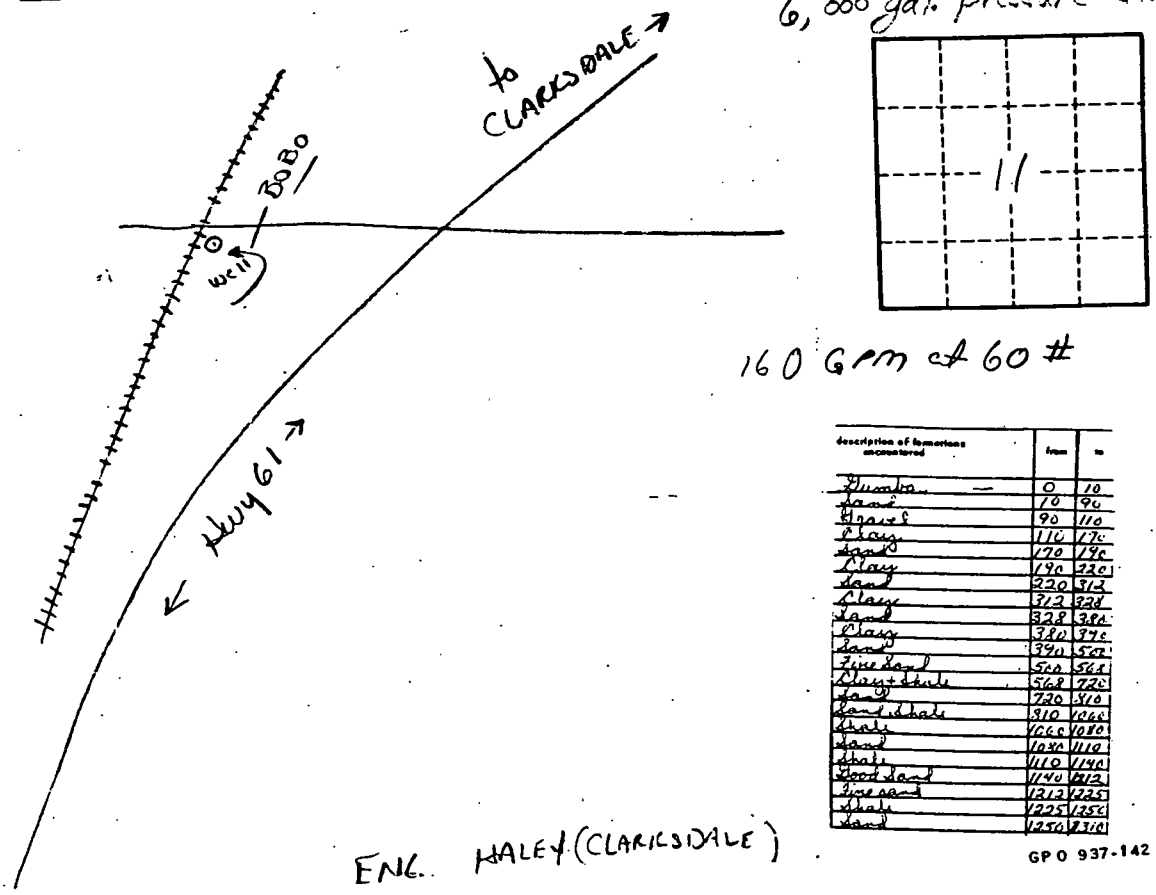
Depth to basement: _____ ft (65–68) Source of data: _____ (69)

Surficial material: _____ (70–71) Infiltration characteristics: _____ (72)

Coefficient Trans: _____ gpd/ft (73–75) Coefficient Storage: _____ (76–78)

Coefficient Perm: _____ gpd/ft^2; Spec cap: 2.3 gpm/ft; Number of geologic cards: _____ (79)

6,000 gal. pressure storage tank



160 Gpm at 60 #

description of formations encountered	from	to
Fill	0	10
Sand	10	90
Gravel	90	110
Clay	110	170
Sand	170	190
Clay	190	220
Sand	220	312
Clay	312	328
Sand	328	380
Clay	380	390
Sand	390	510
Fine Sand	510	568
Clay + Shale	568	790
Sand	790	810
Sand + Shale	810	1060
Shale	1060	1080
Sand	1080	1110
Shale	1110	1140
Good Sand	1140	1212
Fine Sand	1212	1225
Shale	1225	1250
Sand	1250	1310

ENG. HALEY (CLARKSDALE)

Well No. 1

GPO 937-142

ELOG #18

COAHOMA
H7
10-30-71
Qw 04366

MISSISSIPPI
BOARD OF WATER COMMISSIONERS
416 North State Street
Jackson, Mississippi 39201

FEB 25 1972

CODED

WATER WELL DRILLERS LOG

~~Feb 28~~ 1972 — Robert E. Ratliff Co. — Coahoma
date well completed — firm name — county well located

LANDOWNER: Bobo Utilities Association, Inc.
Clarksdale, Miss
(mailing address)

WELL LOCATION:
sec. 11 T 26 N/S R 5 E/W
5 miles South of Bobo
(distance) (direction) (nearest town)

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

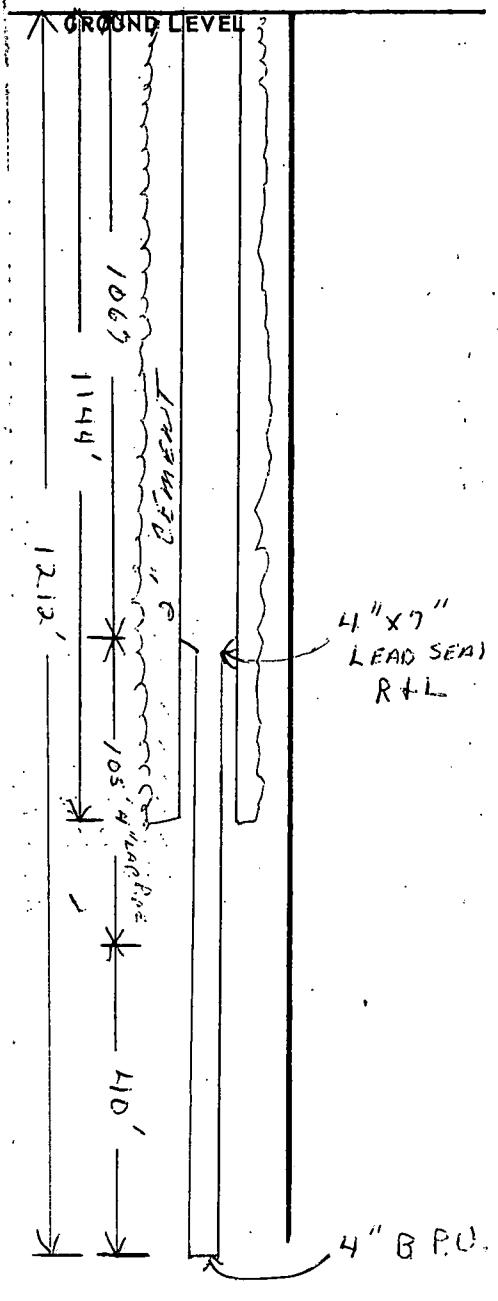
WELL COMPLETION DATA:
(1) diameter (inches) 7"
(2) total depth (feet) 1212'
(3) static water level (feet) 9' below ~~above~~ top of ground.
(4) casing Bl. St. Coated (material), 1144' (depth),
7" (size) if telescope see back.
(5) screen 40' (length), 1172 (depth to top)
4" (size), S.S. (material)
(6) pump 10 (HP) 110 (yield gpm)
Electric (type power)
(7) electric log Yes (yes or no)
U. S. G. S. (organization running log)
(8) how well bottom plugged B.P.V. 4"

DRILLERS REMARKS:

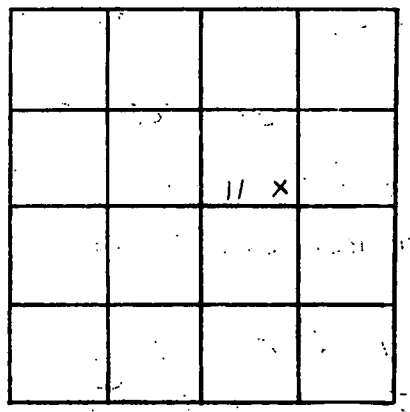
description of formations encountered	from	to
Gumbo	0	10
Sand	10	90
Gravel	90	110
Clay	110	170
Sand	170	190
Clay	190	220
Sand	220	312
Clay	312	328
Sand	328	380
Clay	380	390
Sand	390	500
Fine Sand	500	568
Clay + Shale	568	720
Sand	720	810
Sand, Shale	810	1060
Shale	1060	1080
Sand	1080	1110
Shale	1110	1140
Good Sand	1140	1212
Fine sand	1212	1225
Shale	1225	1250
Sand	1250	1331

CODED

If well telescopes please sketch and show depths.



If more than one screen, show locations of each on sketch.



SECTION 11

Please indicate well location X.

ADDITIONAL INFORMATION

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): Grantham DATE: 5-7-97

UNIT DEQ #: FILE #: B050720C

HEALTH DEPT. #: 140001-01 ELEV. 163

USGS #: H-009 OLWR #: MS-GW-04366

OWNER: BoBo Utilities

LOCATION: NE,NE,NE S 14 T 26N R 5W COUNTY: Coahoma

LOCATION DESCRIPTION:

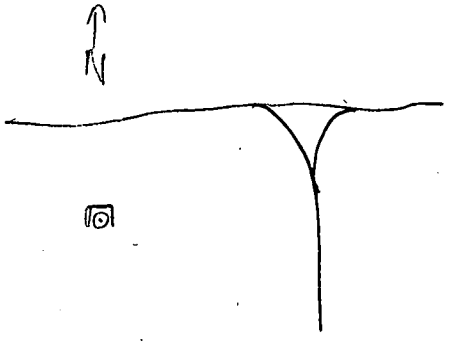
CASING DIA: 6" PUMP TYPE & SIZE: Submer

GPS FIELD LOCATION: LAT. 3408 02.1 LONG. 90 40 42.5

GPS CORRECTED LOCATION: LAT. 34.133922 LONG. 90.67848035

REMARKS: Wells are 6' apart

Quad-Sturgis



4366.

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

RECEIVED
FEB 24 1997
Dept. of Environmental Quality
Office of Land & Water Resources

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. 4-8-97 AGN. FORM OLWR/AP-2/REV. 9/94

Issued: 7-28-87	Expires: 4-8-2007	Fee Paid: X	Permit No.
Lat. 340801	Long. 90 40 43	Elev. 160	USGS No.
Quad. SHERARD	ASCS Farm No.	STAC.	MSDOH No.
Aquifer: MUWX	Tract No.		Basin No. 08030207
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): **NEW PERMIT** **(RENEWAL)** **PERMIT NO.** MS-G-W-043

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: Bobo Utility District (Name) 64-0519764 (SSN or Tax ID No.)

P.O. Box 1087 (Address)

Clarksdale (City) MS 38614 (State & Zip) (601) 624-6707 (Telephone No.)

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

_____ (Name) _____ (SSN or Tax ID No.)

MAP SENT

_____ (Address)

_____ (City) _____ (State & Zip) (___) _____ (Telephone)

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

NE 1/4 of the NE 1/4 of Section 14, Township 26N, Range 5W, 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:** Meads Upper Wilcox **MISSISSIPPI DEPARTMENT OF HEALTH NO.** 0240001
2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____. If well has already been drilled, when was well completed (date)? 10-31, 1971. Under whose name was well originally drilled (if known)? Bobo Water Association
3. Description of proposed or completed well:
   (a) DEPTH OF WELL: 1212' feet. DRILLER: Robert E. Ratliff
   (b) SURFACE CASING: Length 1172 feet; Diameter 7 inches; Type Steel
   (c) SCREEN: Length 40 feet; Diameter 4 inches; Type Stainless Steel
   (d) PUMP: Type Layne + Bowler Size 6"EHL 6" Bowl; Capacity 150 gallons per minute; Setting depth 90' feet
   (e) POWER UNIT: Type _____; Size _____ horsepower
4. **PERMITTED VOLUME:**
   (a) _____ acre-feet per year at a maximum rate of _____ gallons per minute
   (b) ~~0.21~~ 0.03 million gallons per day at a maximum rate of 150 gallons per minute

(CONTINUED ON BACK)

0.59 150

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. Discription 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 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.**_____
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 53
   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? 0.216 (Volume) mgd 1998 (Year); 0.216 (Volume) mgd 2003 (Year); 0.216 (Volume) mgd 2008 (Year); 0.216 (Volume) mgd 2013 (Year)
4. **INDUSTRIAL** : If the water is to be released into a watercourse, indicate the amount released each year N/A;
   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.

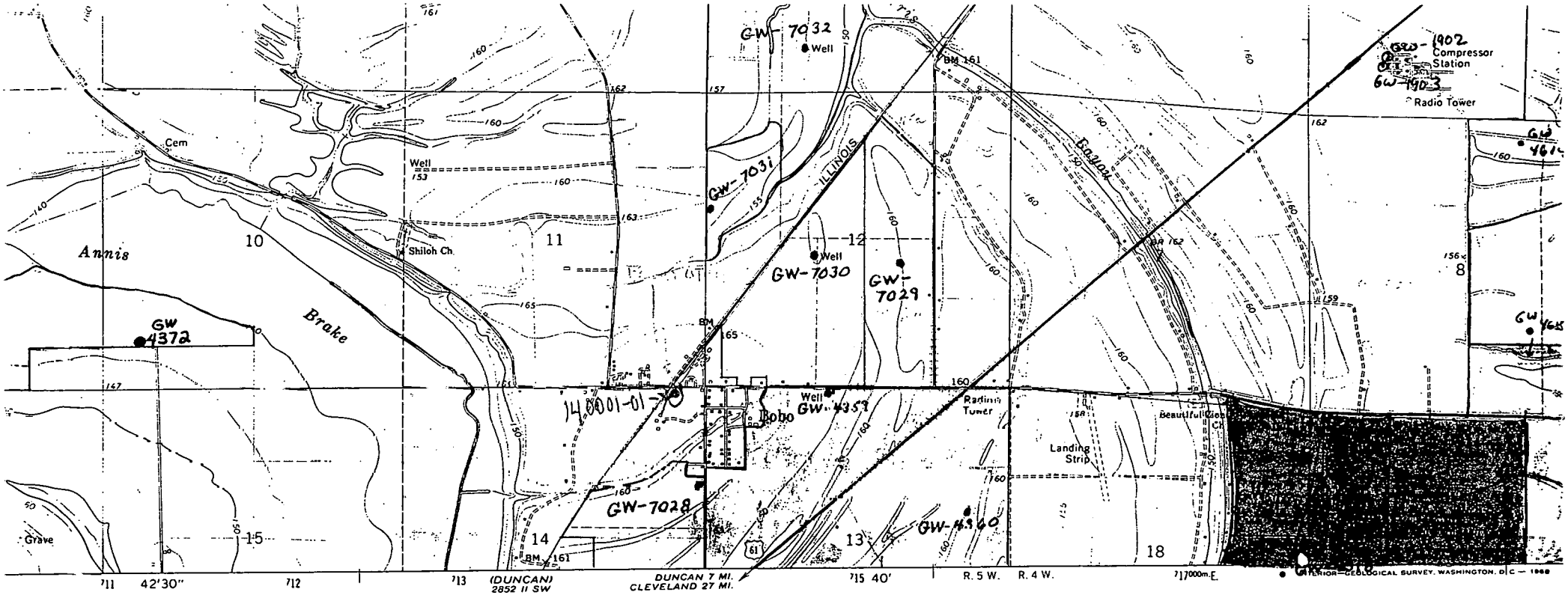
Penny Henson
(Name)
P. O. Box 1087
(Address)
Clarksdale, MS 38614
(City, State, Zip)
601-624-6707
(Telephone)

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.

Penny Henson
(Signature)

Subscribed and sworn to before me this 18th day of February 1997, at Coahoma County of Mississippi

My commission expires 4-5-97; Tresa Presley Notary Public.



SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 5 FEET
DATUM IS MEAN SEA LEVEL

MN
GN
1°18'
23 MILS
5½°
98 MILS

ND 1967 MAGNETIC NORTH
ION AT CENTER OF SHEET

ROAD CLASSIFICATION

Heavy-duty ——— Light-duty - - -
Medium-duty — — Unimproved dirt - - -
U.S. Route State Route

MISS.
QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

SHERARD, MS
NW/4 CLARKSDALE 15' QUAD.
N3407.5—W9037.5
1967
AMS 2852 II NW—SERIES

4366
Sherard — Pentecost
Bobo