

Coded By Q 7/91
Checked By W 5-27-92
Entered By W 7/91
Date 5/22/92

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT

E-Log No. 121
County Holmes
Agency

Well No. L38

WELL RECORD

Agency Code U S G S Site Id 13310902090102300111 Project No. 5

Station Name 12 L038 LEBANON W IA Latitude 9 33 09.02 Longitude 10 09 10.23 01

Lat./Long. Ac. 11 S 1 M Disc 6=25 State 7=28 County SE NEW Land Net 13 SWINE SI 24 TI 15 M 21 02 ET 2

Location Map 14 LEXINGTON IN Altitude 345 Elevation 16 358 Acc/Meas 17 A L Accuracy 18 15 Hydrologic Unit 20 181031021016

Agency Use 803 A I Date Inventoried 7 11 Station Type 4 Data Type 804

Instru. 805 Remarks 806 Relia. 3 C L M U 2 W X

Date of Construction 21 01 / 15 / 19 71 Well Use 23 W Water Use 24 P Primary Aquifer 714 12 H W L C X M Hole Depth 27 17 11 16

Well Depth 28 14 9 14 Water Level 30 14 31 Water Level Date 31 11 / 10 11 / 19 91 Method 34 Status 37 Source 33 D

CONSTRUCTION DATA

Construction Date 60 11 / 10 11 / 19 91 Contractor 63 3 16 41 Name Lora Method 65 11 Finish 66 61

CONSTRUCTION CASING DATA

R	T	Top/Casing	Bot/Casing	Diameter
R=76	T=A	725#1	59#1	77 11 10 1
R=76	T=A	725#2	59#1	77 11 11 1

CONSTRUCTION OPENINGS DATA

R	T	Top/Depth	Bot/Depth	Diameter	Type	Length	Width
R=82	T=A	726#1	59#1	83 14 54	84 14 94	87 16	85 S
R=82	T=A	726#2	59#1	83 11 11 1	84 11 11 1	87 11 11 1	85 11 11 1

CONSTRUCTION LIFT DATA

Power 45 EL H.P. 46 14 0 Serial No. 49

R=42 T=A 254#1 Lift Type 43 T Date 38 11 / 10 11 / 19 91 Intake 44

MISCELLANEOUS OWNER DATA

Date of Ownership 159 11 / 10 11 / 19 91 Owner Name 161 LEBANON W IA

MISCELLANEOUS OTHER ID DATA

E-Log No. 190 11 11 1 Assigner 191 M I S S I S S I D I S T

MISCELLANEOUS QM DATA

R=192	T=A	738#1	Date of Measurement 1934 / / .	Aquifer Sampled 195# .	Temp 196#00010	Value 197# .
R=192	T=A	738#2	Date of Measurement 1934 / / .	Aquifer Sampled 195# .	Sp Cond 196#00095	Value 197# .
R=192	T=A	738#3	Date of Measurement 1934 / / .	Aquifer Sampled 195# .	pH 195#00400	Value 197# .

MISCELLANEOUS LOGS DATA

R=198	T=A	739#1	Log Type 199#E.	Req. Depth 200# 13 .	End Depth 201# 02 .
R=198	T=A	739#1	Log Type 199#D.	Req. Depth 200# 10 .	End Depth 201# 16 .

MISCELLANEOUS NETWORK DATA $706 = QW \quad WL \quad WD \quad *$

R=114	T=A	730#1	Req. Year 115# 4 .	End Year 116# 4 .	Agency Source 120#A	Freq. 117# .
R=121	T=A	730#2	Req. Year 115# 4 .	End Year 116# 4 .	Agency Source 117#	Freq. 118# .

MISCELLANEOUS REMARKS DATA

R=183	T=A	311#1	Date of Remarks 184# / / .	Remarks 185# .
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DISCHARGE DATA

R=146	T=A	Pump/Flow 147#1	Date 148# / / 99 .	Type 703#(P)F	Discharge 150# 329 .	Sp. Capacity 272# 31 21 .
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GEOHYDROLOGIC DATA

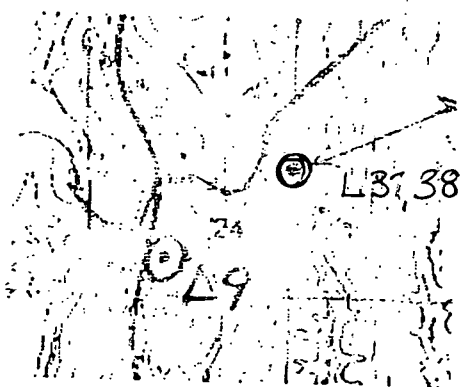
R=90	T=A	721#1	Depth Top 91# 430 .	Depth Bot. 92# 495 .	Unit Id 93# 24WLCRPM	304#
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HYDRAULIC DATA

R=98	T=A	790#1	Unit Tested 100# .	103# .
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44' dd / @ 466gpm @ 0#

Test well # 2 (West well)
6 x 4
125gpm
WL = 145' 19' dd



DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS IDENTIFIED	FROM	TO	ADDITIONAL INFORMATION
Clay	0	15	Hard shale	430	1720	DESCRIPTION: From 15'
Sand + gravel	15	130	Sand + shale	720	1754	Clay 1024 101
Clay	130	170	Rock	784	1758	Sand + clay shale 1016 104
Clay lignite + sand	170	328	Hard shale	784	1778	Hard clay 1017 105
Sand + siltstone/clay shale	328	360	Sand + shale STALL	775	839	Sand + clay shale 1020 109
Clay	360	420	Rock	839	840	Hard clay 1020 111
Sand	420	438	Shale + sand	840	901	Sand shale 1115 119
Clay	438	474	Rock	901	1905	Hard shale 1117 121
Sandy clay	474	560	Hard clay	905	1980	Sand + shale 1218 125
Rock	560	561	Sand	990	1004	Brown shale 1234 129
Sandy clay	561	1030				Sand shale 1237 135
						Rock 1239 137
						Shale 1242 137

Test well # 1 screened 1074' - 1084'
abandoned 1120 - 1140'
turbid water

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
Bureau of Land and Water Resources

P. O. Box 10631
Jackson, MS 39289-0631
WATER WELL DRILLERS LOG

COUNTY WELL LOCATED
HOLMES

WELL NUMBER **2** CODED

L 38

DATE WELL COMPLETED
11/91

PERMIT NUMBER
MSGW-14193

NAME OF DRILLING FIRM
**Layne-Central Co. A Div. of
Layne-Western Co. Inc.**

NAME & MAILING ADDRESS OF LANDOWNER
LEBANON WATER ASSOC.

P.O. Box 610

LEXINGTON, MS 39095

WELL LOCATION: SEC **24** TOWNSHIP **15** RANGE **2**
SW 1/4 **NE 1/4**

DISTANCE _____ MILES _____ of _____

DIRECTION _____

NEAREST TOWN _____

OTHER LANDMARK
LEXINGTON/MEMORY ROAD

WELL PURPOSE: Home, Irrigation, Municipal, Industrial, Fish Pond, etc.
Municipal

PUMP DATA

PUMP TYPE (Circle One):
Submersible, **Turbine**, Jet, Flowing Well,
Other (Describe) _____

POWER TYPE (Circle One):
Electric, Tractor, Diesel, Gasoline, Butane,
Other (Describe) _____ H/P **40**

Pump Capacity (GPM) **300** No. of Stages **13** Setting Depth **288** FT.

PUMP TEST

Well yielded **329** GPM with
a drawdown of **25** ft.
after **24** hours of pumping

WELL DATA

Well Depth 1499'	Casing Diameter (In.) 12"	Casing Length (Ft.) 1448'
Type of Casing STEEL	Hole Depth 1716'	Depth to Static Water Level 148'

TYPE OF COMPLETION: (Circle One or More):
Gravel Packed, **Underreamed**, Telescoped,
Natural Development, Open Hole, Other _____

Top of Lap Pipe or Reduction in Casing
FEET _____ IF TELESCOPED OR MORE THAN ONE SCREEN: USE BACK PAGE

LOG DATA

TYPE OF LOG RUN (Circle One):
Electric, **Gamma Ray**, Density, Sonic, Neutron,
Other (Describe) _____

Name of Organization Running Log
Layne-Central Co.

SCREEN DATA

Diameter - Inches 6"	Length - Feet 40'	Slot Size - Inches #16
Screen Type S/S	Depth to Bottom - Feet 6	

GEOLOGIC DATA (Office Use Only)

Surface Elev.	Geologic Unit	Unit Thickness	Depth - Top
Subs. SWL	Depth - Bottom	Depth - Top	Depth - Bottom

Driller's Remarks
MAY 18 1992

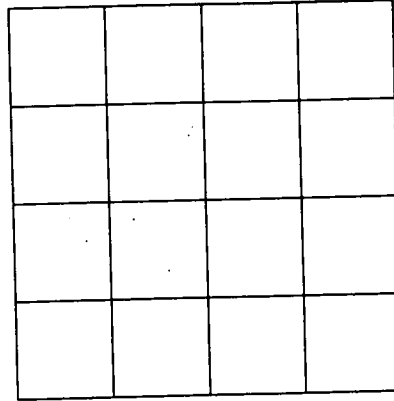
Dept. of Environmental Quality
Bureau of Land & Water Resources

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (Continued)	FROM	TO
Clay	0	15	Hard Shale	630	720
Sand + Gravel	15	130	Sand + Shale	720	754
Clay	130	170	Rock	754	758
Clay Lignite + Sand	170	225	Hard Shale	758	775
Sand Lignite/Clay Strks.	225	360	Sand + Shale Strks.	775	839
Clay	360	420	Rock	839	840
Sand	420	438	Shale + Sand	840	901
Clay	438	474	Rock	901	905
Sandy Clay	474	560	Hard clay	905	980
Rock	560	561	Sand	980	1004
Sandy Clay	561	630			

IF MORE SPACE IS NEEDED, USE BACK

If well telescopes please
sketch and show depths.

GROUND LEVEL



SECTION _____

Please indicate well location X.

ADDITIONAL INFORMATION

Description:	From	To
Clay	1004	1016
Sand + Clay Strati.	1016	1047
Hard Clay	1047	1070
Sand + Clay Strati.	1070	1090
Hard Clay	1090	1115
Sand / Shale	1115	1191
Hard Shale	1191	1218
Sand + Shale	1218	1254
Brown Shale	1254	1377
Sand Shale	1377	1579
Rock	1579	1582
Shale	1582	1716

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

WILCOX DATA SHEET-VERIFICATION CHECKLIST

COUNTY HOLMES

Lexington North Quad
U.S.G.S. E-105#121

WELL OWNER Lebenon W. A.

CHECKED

U.S.G.S. NO. L-38

7/19/94

B.O.H. NO. x

OLWR NO. _____

LOCATION:

MAP NW, SW, NE S 24, T 15 N, R 2 E

7/19/94

GPS _____

ELEV. (MSL) 345'

7/19/94

W.L. (L.S.) (1) -150.6'

7/19/94

(2) -150.55'

7/19/94

HEAD (MSL) +194.45'

7/19/94

SCREENED INTERVAL 1,454' - 1,494' (L.S.) / -1,109' - -1,149' (MSL)

7/19/94

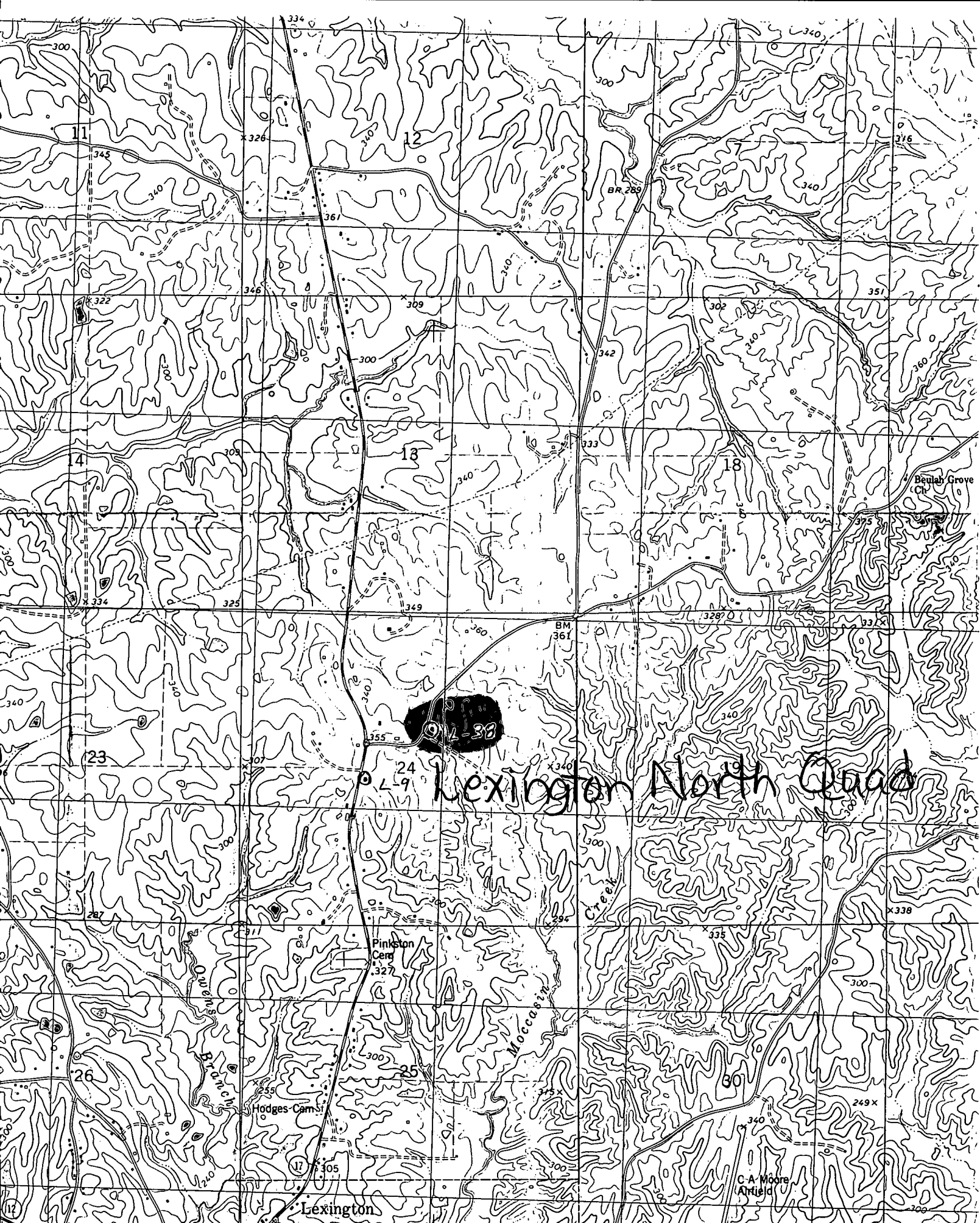
AQUIFER VERIFIED Middle Wilcox

7/19/94

PREVIOUS W.L. -148' (1991)

7/19/94

DATA ENTERED _____



Lexington North Quad

SCALE 1:24 000
775 0.5 MI. TO MISS. 12 PICKENS 19 MI. 2'30" R2E R3E 778 ● INTERIOR—GEOLOGICAL SU

ROAD CLAS

1 MIF

Primary highway