

TRANSMITTED FOR ADP

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Date _____

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT

E-Log No. 147
County Greene
Agency _____

Well No. L24
335B

Leakesville Quad

WELL RECORD

Agency Code U S G S	Site Id 143111021810181813155121011	Project No. 54
Station Name 12 LEAKESVILLE	Latitude 931110218	Longitude 104018835521
Lat/Long Ac. 11 SF T M	Dist 6=28	State 7=28
County 8 01411	Land Net 13 SEFWIS33T1031NR106W	
Location Map 14 12 LEAKESVILLE	Altitude 16 2411	Met/Meas 17 A L M
	Accuracy 18 15	Hydrologic Unit 20 0131171010231

Agency Use 803 A I O	Date Inventoried 711 011 / 1171 / 11989	Station Type Y	Data Type 804
Instru. 805	Remarks	Relia. 3 C L M U	2= X

Date of Construction 21 011 / 1171 / 11989	Well Use 23 W	Water Use 24 P	Primary Aquifer 714 122M101CNI	Hole Depth 27 1101021
Well Depth 28 16718	Water Level 30 1321	Water Level Date 31 018 / 1011 / 11989	Method 34 1	Status 37 1
			Source 33 D	

CONSTRUCTION DATA

R=58	T=A	723#1	Construction Date 60 018 / 1011 / 11989	Contractor 63 11814	Name Griner	Method 65 H	Finish 66 1
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CONSTRUCTION CASING DATA

R=76	T=A	725#1	59#1	Top/Casing 77 1101	Bot/Casing 78 159171	Diameter 79 1101
R=76	T=A	725#2	59#1	Top/Casing 77 53H	Bot/Casing 78 161031	Diameter 79 161

R=76, T=A, 725#3, 59#1*
TT# 630, * 78 = 648 *

CONSTRUCTION OPENINGS DATA

R=82	T=A	726#1	59#1	Top/Depth 83 161051	Bot/Depth 84 163101	Diameter 87 161	Type 85 S	Length 89	Width 88 101161
R=82	T=A	726#2	59#1	Top/Depth 83 161481	Bot/Depth 84 1617181	Diameter 87 161	Type 85 S	Length 89	Width 88 191161

CONSTRUCTION LIFT DATA

R=42	T=A	254#1	Lift Type 43 T	Date 38 018 / 1011 / 11989	Intake 44 12571
Power 45 E	H.P. 46 1401	Serial No. 49			

MISCELLANEOUS OWNER DATA

R=158	T=A	718#1	Date of Ownership 159 018 / 1011 / 11989	Owner Name 161 LEAKESVILLE
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MISCELLANEOUS OTHER ID DATA

R=189	T=A	736#1	E-Log No. 190 147	Assigner 191 M I S S I D I S T
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MISCELLANEOUS QM DATA

R=192	T=A	738#1	Date of Measurement 193# / / *	Aquifer Sampled 195# *	Temp 196#00010	Value 197# *
R=192	T=A	738#2	Date of Measurement 193# / / *	Aquifer Sampled 195# *	Sp Cond 196#00095	Value 197# *
R=192	T=A	738#3	Date of Measurement 193# / / *	Aquifer Sampled 195# *	pH 196#00400	Value 197# *

MISCELLANEOUS LOGS DATA

R=198	T=A	739#1	Log Type 199#(E) *	Beg. Depth 200# 14 21 *	End Depth 201# 10 12 *
R=198	T=A	739#1	Log Type 199#(D) *	Beg. Depth 200# 10 *	End Depth 201# 10 12 *

MISCELLANEOUS NETWORK DATA

R=114	T=A	730#1	Beg. Year 115# 9 *	End Year 116# 9 *	Agency Source 120=A* 117# *	Freq. 118# *
R=121	T=A	730#2	Beg. Year 115# 9 *	End Year 116# 9 *	Agency Source 117# *	Freq. 118# *

MISCELLANEOUS REMARKS DATA

R=183	T=A	311#1	Date of Remarks 184# / / *	Remarks 185# SW 45 10 *
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DISCHARGE DATA

R=146	T=A	Pump/Flow 147#1	Date 148# 08 / 10 11 / 19 8 9 *	Type 703#(P) F	Discharge 150# 32 01 *	Sp. Capacity 272# 31 12 *
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GEOHYDROLOGIC DATA

R=90	T=A	721#1	Depth Top 91# 6 10 10 *	Depth Bot. 92# 6 18 10 *	Unit Id 93# 12 21 M O C N *	304=P
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HYDRAULIC DATA

R=98	T=A	790#1	Unit Tested 100# *	103# *
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Well #4

4.55 gpm/ft

Gorner Russell + Assoc. (Eng.)

TOP SOIL	0	3	SAND	546	602
CLAY + SAND STRS.	3	70	SAND + CLAY STRINGS	602	650
CLAY	90	120	SAND	650	680
SAND	120	147	SAND + CLAY STRS.	680	690
CLAY	147	197	CLAY IN SAND STRS.	690	1002
SAND + CLAY STRS.	197	238			
CLAY	238	273			
SAND COARSE	273	308			
CLAY + SAND STRS.	308	460			
SAND + CLAY STRS.	460	534			
CLAY	534	546			

MOCN

AMM

Issued: <u>7-13-93</u>	Expires: <u>7-13-03</u>	Fee Paid	<input checked="" type="checkbox"/>	Permit No. <u>GW-14510</u>
Lat. <u>311028</u>	Long. <u>883551</u>	Elev. <u>240</u>		USGS No.
Quad. <u>Leakesville</u>	Dist.			Basin No. <u>03170003</u>
STAC				Dam Inv. No.
				Dam appl. No.

Dept. of Natural Resources, Bureau of Land and Water Resources, P.O. Box 10631, Jackson, MS 39289-0631

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



NOV 12 1992

This application is for (circle one): GROUNDWATER SURFACE WATER

Beneficial Use (circle one or more): Irrigation Fish Culture Municipal Rural Water Assn. Dept. of Environmental Quality
 Recreation Institutional (Examples: Church, School) Commercial (Examples: Hotel, Restaurant) Livestock Standby
 Fire Protection Flood Protection Other: Prison

LANDOWNER:

Town of Leakesville (Name) 64-0540390 (S/S or Tax ID No.)
P.O. Box 1088 (Address)
Leakesville (City) MS 39451 (State and Zip) (601) 344-2383 (Telephone Number)

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

 (Name) (S/S or Tax ID No.)

 (Address)

 (City) (State and Zip) (Telephone Number)

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

SE 1/4 of the SW 1/4 of Section 33, Township 2³N, Range 6W, County Greene County

Volume of water diverted/withdrawn (Choose "a", "b", "c", or "d" ["d" is for units other than those shown in "a", "b", or "c"]):

- (a) _____ acre-feet per year at a maximum rate of _____ gallons per minute
- (b) .17 MGD million gallons per day at a maximum rate of 400 320 gallons per minute
- (c) _____ acre feet of storage at normal pool
- (d) _____ per _____ at a maximum rate of _____

Construction of proposed work will begin on (date) _____, 19____ and will be completed by (date) _____, 19 89.

Water will be used from (month) _____ to (month) _____ each year.

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 numbers.

WDH 210002-04

SECTION A (to be completed if application is for surface water source)

1. Source of water is from _____ which drains into _____ which drains into _____ which drains into _____
2. Description of pump/diversion works:
 - (a) Pump (size and type): _____ Power Unit (size and type): _____
 Lift: _____ feet Maximum capacity: _____ gallons per minute.
 - (b) Name of storage reservoir: _____ Dam height: _____ feet.
 Surface area at normal pool: _____ acres. Storage capacity at normal pool: _____ acre-feet.

SECTION B (to be completed if application is for groundwater source)

1. Source of water is Miocene aquifer.
2. Description of proposed water well:
- (a) DEPTH OF WELL: 678 feet. DRILLER (name): Griner Drilling Service Inc.
- (b) SURFACE CASING: Length: 597 feet. Diameter: 10 3/4 inches. Type: Welded & Coated.
- (c) SCREEN: Length: 55 feet. Diameter: 6 inches. Type: Bar Weld SS
- (d) PUMP: Type: Peabody Floway. Size: 8". Capacity: 320 gallons per minute.
Number of stages: 10 Setting depth: 250 feet.
- (e) POWER UNIT: Type: Electric. Size: 40 horsepower.
- (f) TYPE OF COMPLETION: Gravel pack

WATER USE DATA: Screen settings 605-630
648-678

If for IRRIGATION, FISH CULTURE or any other areal use, show the number of acres to which water will be applied in the appropriate 40-acre block(s). Acreage must be shown on accompanying location map.

TOWN-SHIP	RANGE	SEC-TION	NE1/4				NW1/4				SW1/4				SE1/4				TOTALS
			NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	

1. IRRIGATION: List the number of acres of each crop to be irrigated: Rice _____; Cotton _____; Soybeans _____; Corn _____; Pasture _____; Truck _____; Wheat _____; Oats _____; Grain sorghum _____; Other (specify) _____ Acres _____

2. FISH CULTURE: Explain how water will be used: _____
How often will reservoir(s) be emptied and refilled? _____

3. MUNICIPAL or WATER ASSOCIATION 3000
Choose "a" or "b". (a) The number of people served is 1120. (b) The number of connections/customers is 650
What is the estimated average daily consumption during periods of maximum use at the end of each five-year period during the next twenty years? _____ (Volume) _____ (Year); _____ (Volume) _____ (Year); _____ (Volume) _____ (Year); _____ (Volume) _____ (Year)

4. INDUSTRIAL: If water is to be released into a watercourse, indicate the amount released each year _____
Rate of release _____; Location of release point in reference to diversion/withdrawal point _____
_____ Explain any change in quality of water to be released: _____
NPDES Permit No. _____
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: _____

REMARKS: This well is for the prison

List below the person to be contacted for additional information if required:
Jeff Byrd
(Name)
P.O. Box 1088
(Address)
Leakesville MS. 39451
(City, State, Zip)
(cell) 394-2383
(Telephone)

The accompanying map is hereby declared a part of this application. The TEN DOLLAR (\$10.00) permit fee is enclosed herewith.
Jeff Byrd
(Signature)

Subscribed and sworn to before me this 5th day of November 1992 at Leakesville
County of Itchen. My commission expires June 1st, Leakesville MS.
Peggy S. Cooley Notary Public

MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES

Bureau of Land and Water Resources

P.O. Box 10631

Jackson, Mississippi 39209

WATER WELL DRILLERS LOG

COUNTY WELL LOCATED
BARRENE

WELL NUMBER
PRISON WEL

CODED

L 24

DATE WELL COMPLETED
JULY 1989

PERMIT NUMBER
14510

NAME OF DRILLING FIRM
HARNER DRILLING SERVICE

COLUMBIA, MS. 39227

NAME & MAILING ADDRESS OF LANDOWNER
TOWN OF LEAKESVILLE

LEAKESVILLE, MS.

WELL LOCATION: SEC **33** TOWNSHIP **3** RANGE **6**

DIRECTION **N S** **W**

OTHER LANDMARK

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

PUMP DATA

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

POWER TYPE (Circle One): Electric, Tractor, Diesel, Gasoline, Butane, Other (Describe)

Pump Capacity (GPM) **360** No. of Stages **10** Setting Depth **250** FT.

PUMP TEST

Well yielded **360** GPM with a drawdown of **79.16** ft. after **24** hours of pumping

WELL DATA

Well Depth **680** ft. Casing Diameter (In.) **10 3/4** Casing Length (Ft.) **597**

Type of Casing **STEEL** Hole Depth **1010** ft. Depth to Static Water Level **136.82**

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

Top of Lap Pipe or Reduction in Casing **535** FEET

IF TELESCOPED OR MORE THAN ONE SCREEN: USE BACK PAGE

LOG DATA

TYPE OF LOG RUN (Circle One): No Log Run, Electric, Gamma Ray, Density, Sonic, Neutron, Other (Describe)

Name of Organization Running Log
R.D. S. LOGGING SERVICE

SCREEN DATA

Diameter - Inches **6** Length - Feet **55** Slot Size - Inches **.016**

Screen Type **WIRE WOUND** Depth to Bottom - Feet **680**

GEOLOGIC DATA (Office Use Only)

Surface Elev. 241	Geologic Unit	Unit Thickness	Depth to Top
Subs. SWL	Date	Analysis	Aquifer Test

Driller's Remarks
Screened - 606-631 & 606-680.
Blank Pipe - 631-650
Originally filed 7/89 to 6/90.

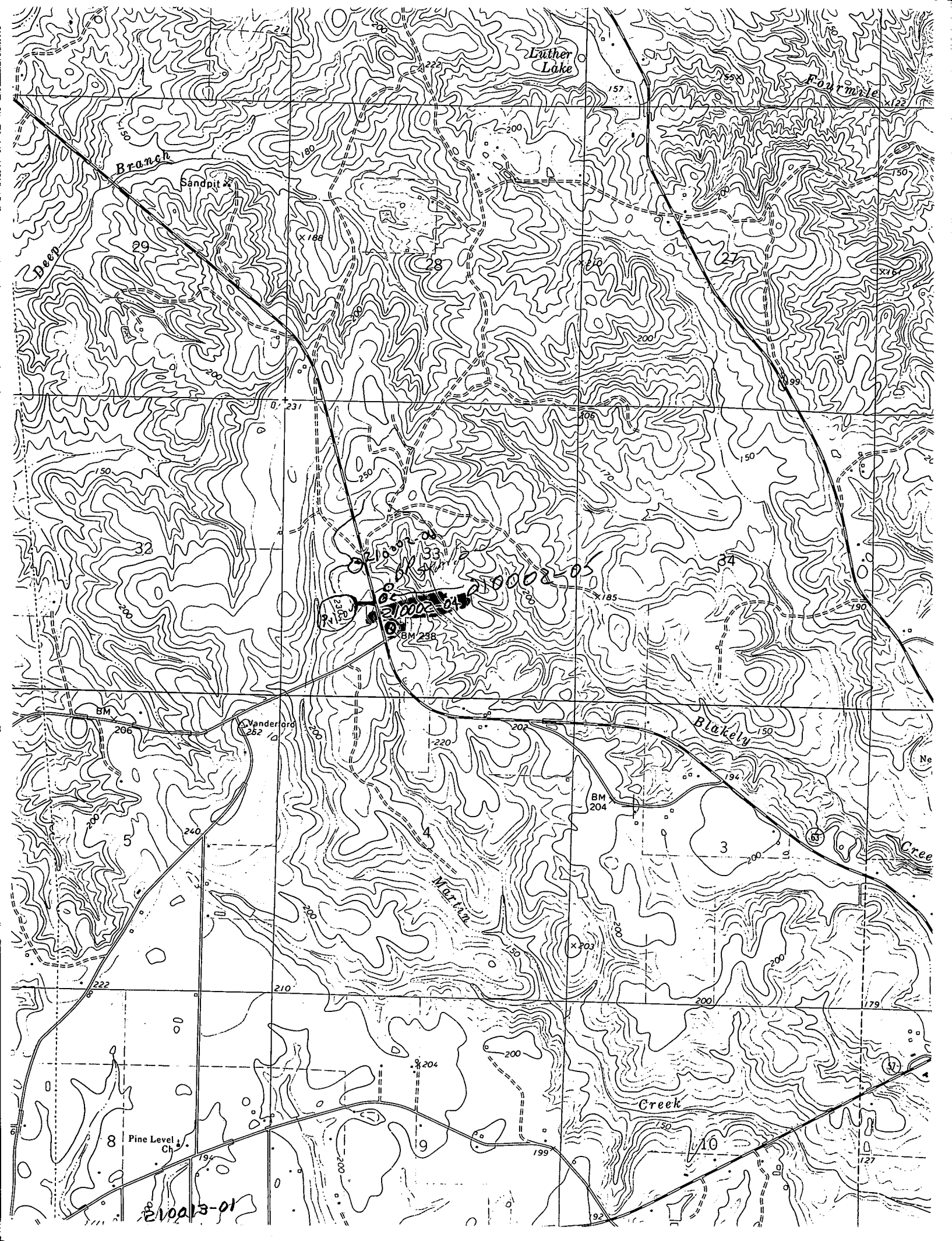
DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (Continued)	FROM	TO
TOP SOIL	0	3	CLAY	128	658
SAND & CLAY SAND	3	90	SAND, Fine	250	680
CLAY	90	120	SAND & CLAY STREAMS	680	690
SAND	120	147	CLAY	690	820
CLAY	147	174	SAND	820	840
SAND & CLAY STREAMS	174	238	CLAY & SAND STREAMS	840	1002
CLAY	238	273			
SAND & CLAY STREAMS	273	534			
SAND	534	546			
CLAY	546	602			
SAND, Fine	602	680			

IF MORE SPACE IS NEEDED USE BACK PAGE

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): SH Bishop DATE: 8-4-94
UNIT DEQ #: 82859 FILE #: D080416A
HEALTH DEPT. #: 210002-04 ELEV. 245
USGS #: L-9000 L-24 OLWR #: GW-14510
OWNER: Town of Leaksville QUAD: Leaksville
LOCATION: ^{NE} /SE/SW S 33 T 3N R 6W COUNTY: Green
LOCATION DESCRIPTION: on Hwy 63, 3 mi. N. of Hwy 57
at Elev. tank nr Prison
CASING DIA: _____ PUMP TYPE & SIZE: 40 hp Elec Turbine
GPS FIELD LOCATION: LAT. 31°10.502 LONG. 88°35.856
GPS CORRECTED LOCATION: LAT. 31.175110 LONG. 88.597629
REMARKS: _____



Luther Lake

Branch

Sandpit

Portville

Deen

Sandpit

Vanderford

Blakely

Pine Level Ch.

E10013-01