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MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES

Bureau of Land and Water Resources
Southport Mall
P.O. Box 10631
Jackson, Mississippi 39209

WATER WELL DRILLERS LOG

7-18 (date well completed) 19 98 — Layne Central Div (firm name) — Desoto (county well located)

LANDOWNER:
North Mississippi Utilities
P.O. Box 362
Hernando, Ms 38632
(mailing address)

WELL LOCATION:
sec. 16 T. 3 (N) (S) R. 9 (E) (W)
1 (distance) miles west (direction) of Eudora (nearest town)

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

WELL COMPLETION DATA:

(1) diameter (inches) 12"

(2) total depth (feet) 1494

(3) static water level (feet) 159 (below) above top of ground.

(4) casing Steel (material), 1405 (depth),
12" (size) if telescope see back.

(5) screen 81' (length), 1410' (depth to top)
8" (size), 304 S.S. (material)

(6) pump 75 (HP) 557 (yield gpm)
460V (type power)

(7) electric log Yes (yes or no)
Layne (organization running log)

(8) how well bottom plugged Back Pressure Valve

DRILLERS REMARKS:
Layne Contract # 574484

description of formations encountered	from	to
See Attached		

10
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-18-98

MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Land and Water Resources
Southport Mall
P. O. Box 10631
Jackson, Mississippi 39209

WATER WELL DRILLER'S LOG

07/18/98 (date well completed) | Layne Central Company (firm name) | DeSoto (county well located)

LANDOWNER: North Mississippi Utilities

P. O. Box 362

Hernando, MS 38632
(mailing address)

WELL LOCATION: Hwy. 304 - Eudora, MS

sec. 16 T 3S R 9W

____ miles ____ of ____
(distance) (direction) (nearest town)

WELL COMPLETION DATA:

(1) diameter (inches) 12"
(2) total depth (feet) 1494'
(3) static water level (feet) 159' below / above top of ground.
(4) casing Steel (material) 1405' (depth)
N/A (size) if telescope see back.
(5) screen 81' (length) 1410' (depth to top)
8" (size) 304SST (material)
(6) pump 75 (HP) 557 (yield gpm)
(7) electric log Yes (yes or no)
Ms. Dept. of Geology (Organization running log)
(8) how well bottom plugged Grouted BPV

DRILLER'S REMARKS:

Well No. 3

description of formations encountered	from	to
See Attached		

DeSoto Co.
T101

FORMATION LOG OF THE WELL OR TEST HOLE

STARTED TEST HOLE 5/27 19 98 FINISHED 6/4 19 98 TEST HOLE NUMBER 1
LOCATION Hwy. 304, Eudora, MS SEC TS RANGE ELEVATION

TOTAL DEPTH	THICKNESS EACH STRATUM	FORMATION
49	49	Brown Clay
65	16	Sand & Clay Streak
99	34	Sand & Gravel
101	2	Sand & Rock
118	17	Sand, Gravel, & Clay Streak
131	13	Sand, Lignite, & Clay Streak
160	29	Hard Gray Clay
177	17	Sandy Clay
213	36	Hard Clay
215	2	Rock
237	22	Hard Clay
268	31	Sandy Clay
374	106	Sand, Clay, & Lignite
511	137	Fine Sand, Shale, & Lignite
720	209	Fine Sand, Clay, & Lignite
916	196	Fine Sand, Lignite, & Shale Streak
985	69	Shale, Lignite, & Sandy Streak
1072	87	Fine Sand, Shale, & Lignite Streak
1133	61	Shale, Lignite, & Sandy Streak
1357	224	Hard Shale & Lignite
1404	47	Sand, Shale, & Lignite Streak
1551	147	Fine Sand, Lignite, & Shale Streak
		SAMPLES
	1.	371 - 418
	2.	418 - 444
	3.	444 - 470
	4.	470 - 496
	5.	496 - 523
	6.	523 - 553
	7.	553 - 580
	8.	580 - 606
	9.	606 - 633
	10.	633 - 660
	11.	660 - 688
	12.	688 - 717
	13.	773 - 804
	14.	811 - 835
	15.	835-865
	16.	865-894
	17.	894-916
	18.	985-1015
	19.	1015-1045
	20.	1045-1072
	21.	1404-1430
	22.	1430-1457
		SAMPLES (CONT.)
	23.	1457 - 1483
	24.	1483 - 1509
	25.	1509 - 1540
	26.	1540 - 1569
	27.	1569 - 1595
	28.	1595 - 1622

MUD PIT SIZE FT. X FT. X FT. DEEP
TYPE BIT USED TO CUT SAND
SIZE OF TEST HOLE THROUGH SAND
TYPE OF BIT USED TO CUT UPPER FORMATIONS
SIZE
TYPE MUD PUMP USED
DRILLING PRESSURE IN SAND
TYPE OF MUD USED
NOTES:

TEST DATA

	PRELIMINARY TEST	FINAL TEST
STATIC WATER LEVEL		166'
PUMPED G. P. M.		557
PRESSURE. POUNDS		65
DRAWDOWN		24
G. P. F. D.		23.21
GUARANTEED G. P. M.		500
GUARANTEED PRESSURE		65
DATE OF TEST		10/6/98

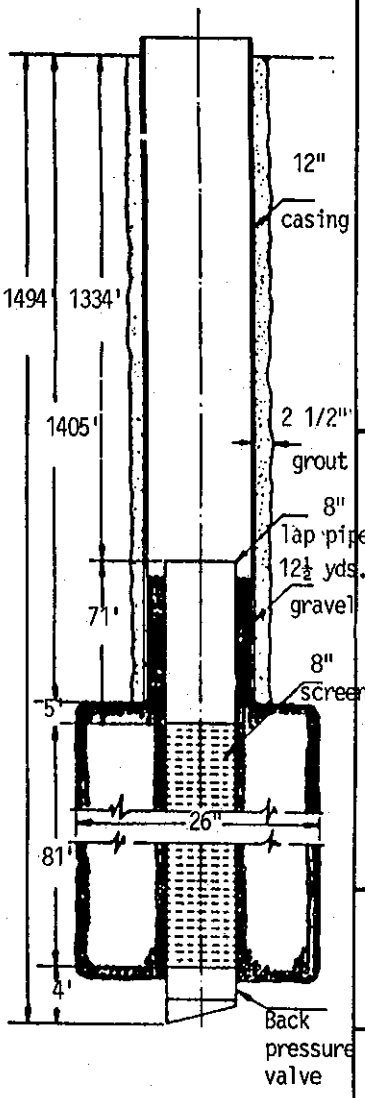
REMARKS

DRILLER Barry Crook
FIELD SUPT Ray Smith

DeSoto Co. J101

MEASUREMENTS TAKEN FROM (GROUND) (TOP OF FOUNDATION) (TOP OF CASING) (TOP BASE PLATE)

DRAWING OF THE WELL



WELL DATA

STARTED WELL 5/27 19 98 AND COMPLETED 7/18 19 98
TOTAL DEPTH 1494' ELEVATION STATIC WATER LEVEL 159'
LENGTH SURFACE CASING 119' SIZE 20" THICKNESS .375
CEMENTED WITH 60 SACKS CEMENT TYPE PACKER None
LENGTH WELL CASING 1405' SIZE 12" WEIGHT .375
CEMENTED WITH 1411 cft. SACKS CEMENT TYPE PACKER None
INNER CASING LENGTH 71' SIZE 8" WEIGHT .322
WITH Fish x Tail GUIDES LOCATED 5'top 5'bottom TYPE BACKOFF LH STD
LEAD SEAL BACKPRESSURE VALVE Yes GUIDE
WELL STRAINER MAKE Johnson SIZE 8" LENGTH 81' OPENING 0.030
TYPE MATERIAL 304 SS WITH weld rings CONNECTIONS
SIZE HOLE DRILLED FOR SURFACE CASING 25" WITH rock
SIZE HOLE DRILLED FOR WELL CASING 17" WITH rock
SIZE HOLE DRILLED FOR STRAINER 26" WITH underreamer
YARDS OF GRAVEL USED 12.5 HOW PLACED Tremie
HOW WAS WELL DEVELOPED Air Agitation
NOTES: Gravelled with CSS 16 - 25 Sansaba

RIG USED GD 2500 DRILLER Barry Crook

PUMP RECORD

SERIAL NUMBER 117372 MAKE Layne FOUNDATION Concrete
LENGTH COLUMN 240' SIZE 8 X 2 X 1 3/16 TYPE Oil lube ~~X~~ 10 LENGTHS
BOWL SIZE 9" TYPE 9RCHC STAGES 8 MATERIAL IMPELLER Bronze
MATERIAL BOWL CI WITH open PORTS AND 1 3/16" SHAFT
SUCTION SIZE 6" LENGTH 20' SUCTION STRAINER No
IS PUMP SEALED No HOW WHERE WITH WHAT
LUBRICATOR TYPE Lube Device SIZE 5 Quart VOLTAGE 460
LENGTH OF AIRLINE 240' SIZE 1/4" TYPE MATERIAL SST Tubing
AIR RELEASE VALVE TYPE None SIZE
SIZE SURFACE DISCHARGE 8" TYPE Flanged DAYTON COUPLING No
PRESSURE GAUGE None SPEED
NOTES Layne Head & Column Goulds Bowl

RIG USED TO SET PUMP National Crane INSTALLER Tommy Sullivan
DATE PUMP INSTALLED 9/28 19 98 DATE IN OPERATION 19

MOTOR

MAKE U.S. HP 75 FRAME 365TP PHASE 3 CYCLE 60 VOLT ~~220~~/460
SPEED 1775 MODEL 6327 SERIAL NUMBER
TOP BEARING BOTTOM BEARING RATCHET Yes
STARTER PRESSURE SWITCH FLOAT

GEAR

MAKE MODEL SIZE RATIO NO.
SIZE PULLEY TYPE MOTOR FRAME

ENGINE

MAKE MODEL HP SERIAL NUMBER
SPEED SIZE PULLEY FOUNDATION
TYPE FUEL TANK MAKE MAG. NO.
MAKE STARTER NO. TYPE FUEL
MAKE FLEXIBLE SHAFT SIZE LENGTH BELT LENGTH

GENERAL

PURPOSE FOR WHICH THIS WATER IS USED
TEMPERATURE IS WATER CLEAR CAPACITY
SAND HARDNESS PH IRON NaCl
TYPE TREATMENT USED
IS THERE A DERRICK OVER THE WELL HEIGHT TYPE
CAN TRUCK OR RIG EASILY GET TO WELL
PUMP HOUSE SIZE HATCH

CONTRACT NO. 57 - 4484

OUR WELL NO. 1 THEIR WELL NO. 3 IN TEST HOLE NO. 1

LOCATION OF THE WELL Hwy. 304

INSTALLED FOR North Mississippi Utilities

ADDRESS CITY Eudora COUNTY Desoto STATE MS

YEAR 1998