

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

Desoto
F103

MSGW
 15280

5-14 19 98 Layne Central Div Desoto
 date well completed firm name county well located

LANDOWNER:
 Horn Lake Water Assoc.
 P.O. Box 151
 Horn Lake, Ms 38637
 (mailing address)

description of formations encountered
 from to
 See Attached

WELL LOCATION:
 sec. 2 T 2 N R 8 E
5 miles South of Horn Lake
 (distance) (direction) (nearest town)

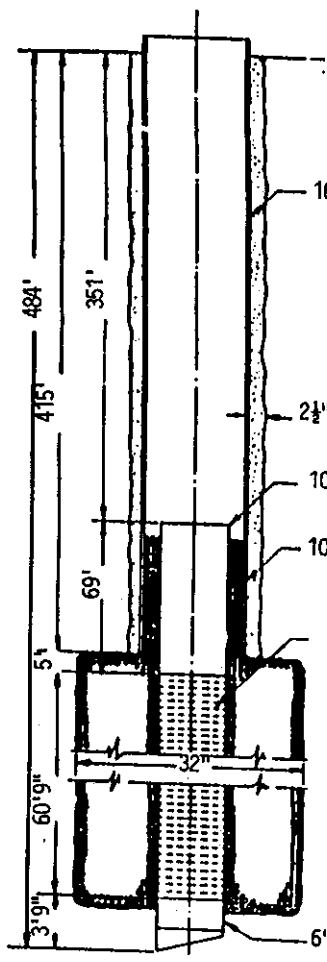
WELL PURPOSE: Municipal
 (home, irrigation, municipal, industrial)

WELL COMPLETION DATA:
 (1) diameter (inches) 16"
 (2) total depth (feet) 484'
 (3) static water level (feet) 126 ^{below} _{above} top of ground.
 (4) casing Steel, 415,
 (material) (depth)
16" If telescope see back.
 (size)
 (5) screen 60'9", 420
 (length) (depth to top)
10", 304 S.S.
 (size) (material)
 (6) pump 75
 (HP) (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:

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

DRAWING OF THE WELL



WELL DATA	STARTED WELL	3-27	1998	AND COMPLETED	5-14	1998
	TOTAL DEPTH	484'	ELEVATION	332'	STATIC WATER LEVEL	126'
	LENGTH SURFACE CASING	53'	SIZE	26"	THICKNESS	.375
	CEMENTED WITH	30	SACKS CEMENT	TYPE PACKER	None	
	LENGTH WELL CASING	415'	SIZE	16"	WEIGHT	.375
	CEMENTED WITH	390	SACKS CEMENT	TYPE PACKER	None	
	INNER CASING LENGTH	69'	SIZE	10"	WEIGHT	188 304SS
	WITH	Fish Back	GUIDES LOCATED	10' btm 5' top	TYPE BACKOFF	LH STD
	LEAD SEAL	No	BACKPRESSURE VALVE	6"X3'9"	GUIDE	Yes
	WELL STRAINER MAKE	Houston	SIZE	10"	LENGTH	60'8"
TYPE MATERIAL	304SS	WITH	Weld Ring	CONNECTIONS		
SIZE HOLE DRILLED FOR SURFACE CASING	32"	WITH	Houston Reamer			
SIZE HOLE DRILLED FOR WELL CASING	21"	WITH	Rock Bit			
SIZE HOLE DRILLED FOR STRAINER	32"	WITH	Underreamer			
YARDS OF GRAVEL USED	13.2 Yd	HOW PLACED	Tremie 10-20 CSS			
HOW WAS WELL DEVELOPED	Air Agitation					
NOTES:	No Sahd, will need pumping to clear.					
RIG USED	GD 2500	DRILLER	Barry Crook			
PUMP RECORD	SERIAL NUMBER	117573	MAKE	Layne	FOUNDATION	Concrete
	LENGTH COLUMN	190'	SIZE	8" X 1 3/16"	TYPE	Water Lube
	BOWL SIZE	12"	TYPE	CHC	STAGES	3
	MATERIAL BOWL	Bronze	WITH	closed	PORTS AND	1 3/16"
	SUCTION SIZE	10"	LENGTH	20'	SUCTION STRAINER	No
	IS PUMP SEALED	No	HOW		WHERE	
	LUBRICATOR TYPE	Water	SIZE		WITH WHAT	
	LENGTH OF AIRLINE	190'	SIZE	1/4"	VOLTAGE	
	AIR RELEASE VALVE TYPE	Crispin	SIZE	1"	TYPE MATERIAL	SST Tubing
	SIZE SURFACE DISCHARGE	10"	TYPE	Flanged	DAYTON COUPLING	Yes
PRESSURE GAUGE	Yes	SPEED	1770			
NOTES:	All pipes coated inside and outside Layne head and column assembly w/ Goulds bowl					
RIG USED TO SET PUMP	National Crane	INSTALLER	R. E. Howell			
DATE PUMP INSTALLED	9-23	1998	DATE IN OPERATION			
MOTOR	MAKE	U.S.	HP	75	FRAME	365TP
	PHASE	3	CYCLE	60	VOLT.	460
	SPEED	1770	MODEL		SERIAL NUMBER	5323A-806-6094M
	TOP BEARING		BOTTOM BEARING		RATCHET	
STARTER		PRESSURE SWITCH		FLOAT		
GEAR	MAKE		MODEL		SIZE	
	RATIO		NO.			
ENGINE	MAKE		MODEL		HP	
	SERIAL NUMBER		FOUNDATION			
	TYPE FUEL TANK		MAKE MAG.		NO.	
	MAKE STARTER		NO.		TYPE FUEL	
	MAKE FLEXIBLE SHAFT		SIZE		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. 57.4483

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

LOCATION OF THE WELL Great Oaks Rd.

INSTALLED FOR Horn Lake Water Association

ADDRESS CITY Horn Lake COUNTY Desoto STATE MS

FORMATION LOG OF THE WELL OR TEST HOLE

DeSoto Co
F103

STARTED TEST HOLE 3-27 1998 FINISHED _____ 19____ TEST HOLE NUMBER 1
 LOCATION Great Oaks Road SEC _____ TS _____ RANGE _____ ELEVATION 332'

TOTAL DEPTH	THICKNESS EACH STRATUM	FORMATION	TOTAL DEPTH	THICKNESS EACH STRATUM	FORMATION
14	14	Top Soil			
52	38	Sand Gravel			
55	3	White Clay			
58	3	Sand & Clay Str			
63	5	Sand			
78	15	Hard Clay			
116	38	Hard Clay & Sand Str			
219	103	Shale & Sandy Str			
220	1	Rock			
232	12	Shale Lignite			
264	32	Sandy Shale & Lignite			
284	20	Fine Sand & Clay Str & Lig			
342	58	Med Sand & Clay Str			
348	6	Sand & Clay Str			
393	45	Med Sand & Clay Str & Lig			
420	27	Fine Sand & Clay Str			
530	110	Med Sand & Clay Str & Lig			
557	27	Fine Sandy Clay			
609	52	Fine Sand & Clay Str			

MUD PIT SIZE _____ FT. X _____ FT. X _____ FT. DEEP
 TYPE BIT USED TO CUT SAND 12 1/4 Roller
 SIZE OF TEST HOLE THROUGH SAND 12 1/4
 TYPE OF BIT USED TO CUT UPPER FORMATIONS _____
 TYPE MUD PUMP USED Quik'Gel
 DRILLING PRESSURE IN SAND _____
 TYPE OF MUD USED _____

NOTES:
Test well constructed from 440' - 480' Pumped at 140 GPM and sampled. Results on file.

SAMPLES

1.	264 - 284
2.	284 - 311
3.	311 - 338
4.	338 - 365
5.	365 - 393
6.	393 - 420
7.	420 - 447
8.	447 - 473
9.	473 - 499
10.	499 - 530
11.	530 - 557
12.	557 - 583
13.	583 - 609

TEST DATA

PRELIMINARY TEST	FINAL TEST
STATIC WATER LEVEL	135'
PUMPED G. P. M.	1013
PRESSURE, POUNDS	28
DRAWDOWN	20
G. P. F. D.	50.65
GUARANTEED G. P. M.	1000
GUARANTEED PRESSURE	65
DATE OF TEST	10/13/98

REMARKS

DRILLER B. Crook
 FIELD SUPT Ray Smith