H17

FORMATION LOG OF THE WELL OR TEST HOLE

Started Test Hole Oct. 9 20 02 Finished Oct. 15 20 02 Test Hole Number _____

Location Shady Grove W.A. Sec _____ TS _____ Range _____ Elevation _____

Total Depth	Thickness Each Stratum	Formation
0-16	16	Clay
16-40	24	Sand
40-76	36	White Clay
76-96	20	Hard Clay
96-222	126	Blue Shale & Rock Streaks
222-294	72	Blue Shale
294-300	6	Shale Lots of Rock Streaks
300-303	3	Rock
303-340	37	Shale & White Rock Streaks
340-343	3	Rock
343-378	35	Hard Clay & Rock Streaks
378-409	31	White Rock & Sandy Shale Streaks
409-422	13	Hard Sandy Shale
422-430	8	Rock & Sandy Shale Streaks
430-433	3	Sandy Shale
433-437	4	Rock
437-462	25	Shale & Lots of Rock Streaks
462-502	40	Shale
502-555	53	Sandy Shale
555-586	31	Sand & Shale
586-596	10	Sandy Shale
596-690	94	Shale & Rock Streaks
690-939	249	Hard Shale
939-1001	62	Soap Stone & Shale Streaks
1001-1032	31	Soap Stone, Shale & Rock Streaks
1032-1085	53	Sandy Shale
1085-1104	19	Fine Sand & Shale Streaks 1/2 & 1/2
1104-1116	12	Shale & Sandy Streaks
1116-1126	10	Hard Shale
1126-1185	59	Sandy Shale, Lignite & Rock Streaks
1185-1189	4	Shale
1189-1240	51	Sandy Shale, Shale Streaks & Lignite
1240-1252	12	Hard Shale
1252		Bottom Hole
		Sample
		1. 1032 - 1063
		2. 1063 - 1096
		3. 1096 - 1104
		4. 1126 - 1158
		5. 1158 - 1189
		6. 1189 - 1220
		7. 1220 - 1240

Total Depth	Thickness Each Stratum	Formation

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 Final Test

Static Water Level	
Pumped GPM	
Pressure Pounds	
Draw Down	
GPFD	
Guaranteed GPM	
Guaranteed Pressure	
Date of Test	

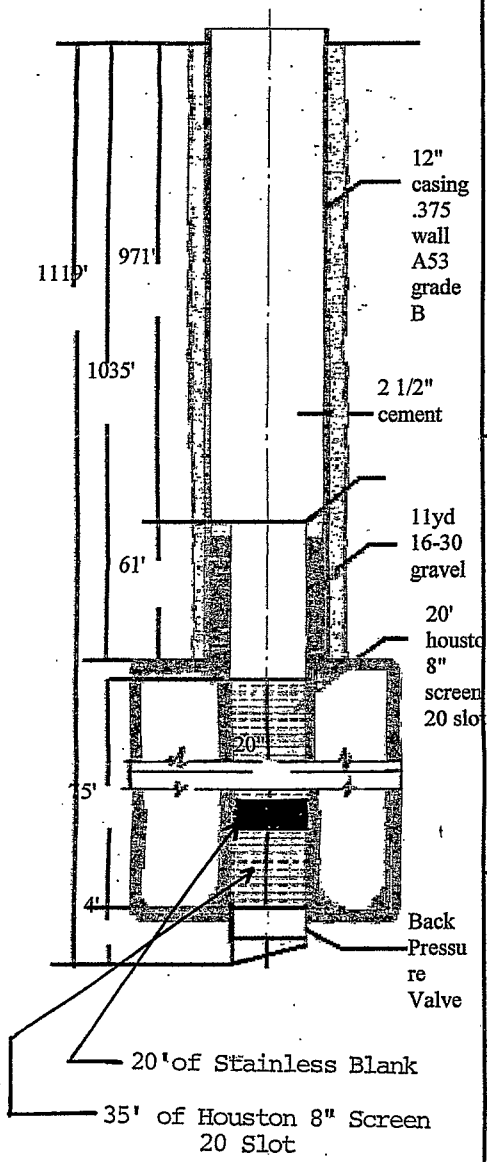
REMARKS

Driller Lynwood Hathcock

Field Supt Ray Smith

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

Drawing of the Well



WELL DATA

STARTED WELL 9/23 2002 AND COMPLETED 11/15 2002
TOTAL DEPTH 1119' ELEVATION _____ STATIC WATER LEVEL 307'
LENGTH SURFACE CASING 40' SIZE 20" THICKNESS .250
CEMENTED WITH 30 SACKS CEMENT TYPE PACKER _____
LENGTH WELL CASING 1035' SIZE 12" WEIGHT .375
CEMENTED WITH 580 SACKS CEMENT TYPE PACKER _____
INNER CASING LENGTH 61' SIZE 8" WEIGHT SCM 40 SS
WITH Fish X Back GUIDES LOCATED Top & Bottom TYPE BACKOFF LH-STD
LEAD SEAL _____ BACKPRESSURE VALVE 6" GUIDE _____
WELL STRAINER MAKE Houston SIZE 8" LENGTH 55' OPENING 20 Slot
TYPE MATERIAL Stainless WITH Weld CONNECTIONS
SIZE HOLE DRILLED FOR SURFACE CASING 25" WITH Roller Bit
SIZE HOLE DRILLED FOR WELL CASING 17" WITH Roller Bit
SIZE HOLE DRILLED FOR STRAINER 20" WITH Layne
YARDS OF GRAVEL USED 11 HOW PLACED Gravel Line
HOW WELL WAS DEVELOPED Air Development
NOTES: 11 yards 16-30 Oglebay Norton screen - 20' blank & 35' - 75' overall

RIG USED GD-1500 DRILLER Lynwood Hathcock

RECEIVED
FEB 18 2003
BY: OLWR

PUMP RECORD

SERIAL NUMBER _____ MAKE _____ FOUNDATION _____
LENGTH COLUMN _____ SIZE _____ TYPE _____ • 10 LENGTHS
BOWL SIZE _____ TYPE _____ STAGES _____ MATERIAL IMPELLOR _____
MATERIAL BOWL _____ WITH _____ PORTS AND _____ SHAFT
SUCTION SIZE _____ LENGTH _____ SUCTION STRAINER _____
IS PUMP SEALED? HOW _____ WHERE _____ WITH WHAT _____
LUBRICATOR TYPE _____ SIZE _____ VOLTAGE _____
LENGTH OF AIRLINE _____ SIZE _____ VOLTAGE _____
AIR RELEASE VALVE TYPE _____ SIZE _____
SIZE SURFACE DISCHARGE _____ TYPE _____ DAYTON COUPLING _____
PRESSURE GAUGE _____ SPEED _____
NOTES: _____

RIG USED TO SET PUMP _____ INSTALLER _____
DATE PUMP INSTALLED _____ 20 _____ DATE IN OPERATION _____ 20 _____

MOTOR

MAKE _____ HP _____ FRAME _____
PHASE _____ CYCLE _____ VOLT 220
SPEED _____ MODEL _____ SERIAL NUMBER _____
TOP BEARING _____ BOTTOM BEARING _____ RATCHET _____
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 Drinking
TEMPERATURE _____ IS WATER CLEAR _____ CAPACITY _____
SAND _____ HARDNESS _____ PH _____ IRON _____ NACL _____
TYPE TREATMENT USED _____
IS THERE A DERRICK OVER THE WELL No HEIGHT _____ TYPE _____
CAN TRUCK OR RIG EASILY GET TO WELL Yes
PUMP HOUSE No SIZE HATCH _____

CONTRACT NO. 57-5333

OUR WELL NO. 2 THEIR WELL NO. 2 IN TEST HOLE 1

LOCATION OF THE WELL Shady Grove

INSTALLED FOR Shady Grove Water Association