

<b>C1</b> 41808		SEQUENCE NO. (MDE USE ONLY)	<b>STATE OF MARYLAND</b> <b>WELL COMPLETION REPORT</b> FILL IN THIS FORM COMPLETELY PLEASE TYPE		THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.	
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)				COUNTY NUMBER 562929		
ST/CO USE ONLY DATE Received MM DD YY 05/16/18		DATE WELL COMPLETED MM DD YY 3 9 2018		Depth of Well 22 305 26 (TO NEAREST FOOT)		
				PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-17-0286		
OWNER Pelti Ford		BRIDGE				
WELL SITE ADDRESS 6000 In. Oak Rd		TOWN Clarksville Md 21027				
SUBDIVISION Huntington Manor		SECTION		LOT 4		
<b>WELL LOG</b> Not required for driven wells		<b>GROUTING RECORD</b> WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N 44 44 TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 22 NO. OF POUNDS 2028 GALLONS OF WATER 132 DEPTH OF GROUT SEAL (to nearest foot) from 48 TOP 52 ft. to 54 BOTTOM 58 ft. (enter 0 if from surface)		<b>C3</b> 1 2 <b>PUMPING TEST</b> HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 10 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 43 ft. WHEN PUMPING 220 ft. TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other (describe below) J jet S submersible		
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING		<b>CASING RECORD</b> casing types insert appropriate code below S T C O STEEL CONCRETE P L O T PLASTIC OTHER MAIN CASING TYPE 5+ Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 84 60 61 63 64 66 70				
DESCRIPTION (Use additional sheets if needed)		OTHER CASING (if used) EACH CASING diameter depth (feet) inch from to				
FEET FROM TO 0 80 80 305 ✓ Water 220		SCREEN RECORD screen type or open hole (insert appropriate code below) S T B R H O STEEL BRASS OPEN BRONZE HDLE P L O T PLASTIC OTHER				
NUMBER OF UNSUCCESSFUL WELLS: 0		<b>C2</b> DEPTH (nearest ft.) HO 82 305 EACH CASING 8 9 11 15 17 21 23 24 26 30 32 36 38 39 41 45 47 51 SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 58 60 from to		<b>PUMP INSTALLED</b> DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) + above - below LAND SURFACE 2 (nearest foot) 50 51		
WELL HYDROFRACTURED yes Y no N		I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.		LATITUDE 39.207293 LONGITUDE 76.259143 (DEFAULT COORD. WGS 84)		
CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL		DRILLERS LIC. NO. 1 M 5D 027 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 D		Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or state law.		
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)		MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76 TELESCOPE LOG CASING INDICATOR OTHER DATA				

<b>B 1</b> <div style="border: 1px solid black; padding: 5px; font-size: 24px; text-align: center;">51649</div>	SEQUENCE NO. (MDE USE ONLY) <div style="border: 1px solid black; padding: 5px; font-size: 24px; text-align: center;">502929</div>	<b>STATE OF MARYLAND</b> <b>APPLICATION FOR PERMIT TO DRILL WELL</b> please type	STATE PERMIT NUMBER <div style="border: 1px solid black; padding: 5px; font-size: 24px; text-align: center;">HO - 17 - 0286</div> <div style="text-align: center; font-size: 10px;">70 <i>fill in this form completely</i> 79</div>
Date Received (APA) <div style="border: 1px solid black; padding: 5px; font-size: 24px; text-align: center;">03/19/18</div>	<b>B 3</b> <b>LOCATION OF WELL</b> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <span>8 COUNTY <u>Howard</u></span> <span>21</span> </div> <div style="display: flex; justify-content: space-between;"> <span>23 SUBDIVISION <u>Huntington Manor</u></span> <span>42</span> </div> <div style="display: flex; justify-content: space-between;"> <span>SECTION <u>44</u> <u>46</u></span> <span>LOT <u>4</u> <u>50</u></span> </div> <div style="display: flex; justify-content: space-between;"> <span>52 NEAREST TOWN <u>Clarksville</u></span> <span>71</span> </div> </div>		
<b>OWNER INFORMATION</b> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <span>8 MM DD YY 13</span> </div> <div style="display: flex; justify-content: space-between;"> <span>15 Last Name <u>Pottiford</u></span> <span>Owner <u>Bridget</u></span> <span>First Name</span> <span>34</span> </div> <div style="display: flex; justify-content: space-between;"> <span>36 <u>6000 Ten Oaks Rd</u></span> <span>Street or RFD</span> <span>55</span> </div> <div style="display: flex; justify-content: space-between;"> <span>57 <u>Clarksville</u></span> <span>70 <u>Md</u></span> <span>72 <u>21029</u></span> <span>76</span> </div> </div>			
<b>DRILLER INFORMATION</b> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <span>Driller's Name <u>Larry Mayne</u></span> <span>76 License No. <u>M 5 D 027</u></span> <span>81</span> </div> <div style="display: flex; justify-content: space-between;"> <span>Firm Name <u>Joseph &amp; Mayne Well Drilling</u></span> </div> <div style="display: flex; justify-content: space-between;"> <span>Address <u>5512 Ridge Rd Mt Airy Md 21771</u></span> </div> <div style="display: flex; justify-content: space-between;"> <span>Signature <u>Larry Mayne</u></span> <span>Date <u>3-14-2018</u></span> </div> </div>			
<b>B 2</b> <b>WELL INFORMATION</b> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <span>1 APPROX. PUMPING RATE (GAL. PER MIN.) <u>5</u></span> <span>12</span> </div> <div style="display: flex; justify-content: space-between;"> <span>2 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) <u>500</u></span> <span>14</span> <span>20</span> </div> </div>			
<b>USE FOR WATER</b> (CIRCLE APPROPRIATE BOX) <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <span><input checked="" type="checkbox"/> DOMESTIC POTABLE SUPPLY &amp; RESIDENTIAL IRRIGATION</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> FARMING (LIVESTOCK WATERING &amp; AGRICULTURAL IRRIGATION)</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> PUBLIC WATER SUPPLY WELL</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> TEST, OBSERVATION, MONITORING</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> OPEN LOOP GEOTHERMAL</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> CLOSED LOOP GEOTHERMAL</span> </div> </div>			
<b>NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL</b> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <span>COUNTY NAME <u>Howard</u></span> <span>COUNTY NO. <u>13</u></span> </div> <div style="display: flex; justify-content: space-between;"> <span>STATE SIGNATURE _____</span> <span>INSERT S →</span> </div> <div style="display: flex; justify-content: space-between;"> <span>DATE ISSUED <u>4/24/18</u></span> <span>CO SIGNATURE <u>Sub C. H.</u></span> <span>EXP. DATE <u>4/24/19</u></span> </div> <div style="display: flex; justify-content: space-between;"> <span>43 MM DD YY 48</span> </div> </div>			
<b>PROPOSED LOCATION OF WELL ON LOT</b> SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL <div style="border: 1px solid black; padding: 5px;"> <p><u>5/7</u></p> <p>- driller requested to move 7' further from house - OK</p> <p>- location is -10' further back</p> <p>- 84' steel casing</p> <p>- just hit water @ 175' 3-4 gpm</p> <p>- scaled off</p> <p>N water @ 50'</p> <p><u>5/8/2018</u></p> <p>on site after great Appears competent.</p> <p>Existing well must be sealed.</p> </div>			
<b>APPROXIMATE DEPTH OF WELL</b> <u>300</u> FEET APPROXIMATE DIAMETER OF WELL <u>6</u> INCH <b>METHOD OF DRILLING</b> (circle one) <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <b>Bored (or Augered)</b>  <input checked="" type="checkbox"/> AIR-ROTARY  <input type="checkbox"/> CABLE  <input type="checkbox"/> other _____       </div> <div style="width: 30%;"> <b>JETTED</b>  <input type="checkbox"/> AIR-PERCussion  <input type="checkbox"/> REVERSE-ROTARY       </div> <div style="width: 30%;"> <b>Jetted &amp; Driven</b>  <input type="checkbox"/> ROTARY (Hydraulic Rotary)  <input type="checkbox"/> Drive-POINT       </div> </div>			
<b>REPLACEMENT OR DEEPEMED WELLS</b> (CIRCLE APPROPRIATE BOX) <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input checked="" type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> THIS WELL WILL DEEPEM AN EXISTING WELL</span> </div> </div>			
<b>PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)</b> 41 <u>HO - 17 - 186052</u> <b>Not to be filled in by driller (MDE OR COUNTY USE ONLY)</b> APPROP. PERMIT NUMBER _____ PERMIT No. <u>HO - 17 - 0286</u> <div style="display: flex; justify-content: space-between;"> <span>70</span> <span>71</span> <span>72</span> <span>73</span> <span>74</span> <span>75</span> <span>76</span> <span>77</span> <span>78</span> <span>79</span> </div>			
<b>SPECIAL CONDITIONS</b> NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED. <div style="border: 1px solid black; padding: 5px;"> <p>Existing well must be sealed.</p> </div>			



MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION  
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- \* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- \* WELL OWNER
- \* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 5-29-2018 (month/day/year)

\* PERMIT NUMBER OF ABANDONED WELL (if any)

\* PERMIT NUMBER OF REPLACEMENT WELL:

\* PERSON ABANDONING WELL: Lang Mayne

WELL DRILLER'S LICENSE NUMBER: MSD 027

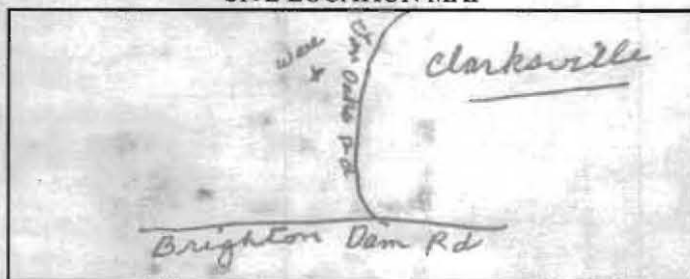
\* OWNER'S NAME: Bridget Pettiford

CIRCLE: MWD / MSD / MGD

\* WELL LOCATION:

SITE LOCATION MAP

COUNTY: Howard  
NEAREST TOWN: Clarksville 21029  
TAX MAP 34 BLOCK 1 PARCEL 399  
SUBDIVISION: Huntington Manor  
SECTION: 4 LOT: 4  
STREET ADDRESS: 6000 Sun Oaks Rd



LATITUDE 39.207296

LONGITUDE 76.959245

LOG OF SEALING MATERIAL

\* TYPE OF WELL BEING ABANDONED:

☒ DRILLED ☐ JETTED  
☐ BORED ☐ HAND DUG  
☐ OTHER (specify) \_\_\_\_\_

\* USE CODE:

☒ DOMESTIC ☐ MUNICIPAL/PUBLIC  
☐ IRRIGATION ☐ INDUSTRIAL  
☐ TEST/OBSERVATION ☐ GEOTHERMAL

\* TYPE OF CASING:

☒ STEEL ☐ PLASTIC  
☐ CONCRETE ☐ OTHER (specify) \_\_\_\_\_

MATERIAL	FEET	
	FROM	TO
Cement & gravel mixed	0	260
VOLUME OF MATERIAL USED		
22 Bags Cement 2068 gal. Water comp. 150 lb gravel		

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 260 FEET DEEP

WAS ANY CASING REMOVED? ☒ YES ☐ NO

If yes, length removed, in feet: 1

WAS CASING RIPPED OR PERFORATED? ☐ YES ☒ NO

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN MSD 027 LICENSE#

MWD / MSD / MGS

CIRCLE ONE

DATE

COUNTY

Pursuant to § 10-624 of the State Govt. Article of the Maryland Code, personal info requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or State Law.

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WELL & SEPTIC PROGRAM  
TEL: (410)313-1771 FAX: (410)313-2648

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: CAK MONT PLUMBING, INC. Telephone #: 301-788-1696  
Address: 2171 GARLAND ROAD  
JEFFERSON, MD. 21555

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:

Name (Print): CHRISTOPHER J. WALKER License #: 9499

**\*A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.**

Name of Property Owner: BRIDGET PETTIFORD Telephone #: 443-756-3036  
Subdivision: \_\_\_\_\_ Lot #: 4 Well Tag #: HO-17-0286 ✓  
Site Address: 6000 TEN OAKS ROAD

Submersible Pump Data

Make: SPA-RITE  
Model #: S5P4H007221-02  
Pump Capacity 5 GPM  
Well Yield: 10 GPM

Pitless Adapter

Make: BII  
Model #: P-100-SS  
Depth: 38 (36" min)

Well Cap and Electric Conduit

Two piece watertight cap: \_\_\_\_\_  
Screened, vented well cap: \_\_\_\_\_  
Cap secured to casing: \_\_\_\_\_  
Conduit min 18" B.G.: \_\_\_\_\_  
Conduit secured to well cap: \_\_\_\_\_

Depth of well encountered at time of pump installation: \_\_\_\_\_ (feet)

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors, Cable guards, or other acceptable method used- Must circle one

Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing

Piping to house

Type: CRES.ITE  
PSI: 200 (160 psi min)  
Depth of supply line: 38" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: UNDER SLAB  
Length of sleeve (5' minimum from foundation): 0  
Sleeve sealed properly: \_\_\_\_\_

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation

date

6/8/2018

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 06/07/2018 Date Insp. Approved: 06/12/2018 Inspector: (Signature)  
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade  
Two piece cap installed and attached to casing securely  
Elec. conduit extends at least 18" below grade/attached to cap properly  
Safety rope not outside of well cap/casing  
Correct well tag attached properly and casing 8" above finished grade  
Water supply line sleeved adequately at house connection  
Adequate grout observed below pitless adapter

36" to top of grout 6/7/2018  
18" to top of grout 6/12/2018  
13" 6/7/2018  
10" piece installed 6/12/2018



6/12/2018 (Signature)

ADDITION FOUNDATION NOT  
POURED.

**FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.**

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

**REPORT OF ANALYSIS**

Laboratory ID #:	124753	Account #:	29150
Reference:	Bridget Pettiford	Company:	CASH ACCOUNT
Location:	6000 Ten Oaks Road	Requested By:	Bridget Pettiford
	Clarksville, MD 21029	Source:	Well Water
Date/ Time Collected:	9/4/2018 1224	Site:	Pressure Tank
Date/Time Rec'd:	9/4/2018 1415	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	6.9
Collected By:	G. Lana 3799GL	Well #:	HO-17-0286

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	2.0	MPN/ 100 ml	<1.0	SM20 9223B	9/6/2018 / 1030 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	9/6/2018 / 1030 / CRS
Turbidity	1.74	NTU	<10	SM20 2130B	9/5/2018 / 1705 / RER

**NOTES**

- 1 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 2 NTU = Nephelometric Turbidity Units
- 3 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 4 ND:None Detected
- 5 pH & Chlorine level tested on site
- 6 Visual well check: Sealed, vented cap

**Reason for Test :** New Well - HCHDDate Reported: 9/6/2018

**FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.**

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

**REPORT OF ANALYSIS**

Laboratory ID #:	124565	Account #:	29150
Reference:	Bridget Pettiford	Company:	CASH ACCOUNT
Location:	6000 Ten Oaks Road	Requested By:	Bridget Pettiford
	Clarksville, MD 21029	Source:	Well Water
Date/ Time Collected:	8/28/2018 1217	Site:	Pressure Tank
Date/Time Rec'd:	8/28/2018 1350	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	7.1
Collected By:	J. Yeager 6176JY	Well #:	HO-17-0286

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	3.1	MPN/ 100 ml	<1.0	SM20 9223B	8/29/2018 / 1015 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	8/29/2018 / 1015 / CRS
Nitrate	<1.0	mg/L	10	601	8/28/2018 / 1540 / RER
Turbidity	47.1	NTU	<10	SM20 2130B	8/28/2018 / 1545 / CRS
Sand	NS	mg/L	5	Visual/Gravimetric	8/28/2018 / 1545 / RER

**NOTES**

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 pH & Chlorine level tested on site
- 8 Visual well check: Sealed, vented cap

**Reason for Test :** New Well - HCHDDate Reported: 9/5/2018

**FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.**

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

**REPORT OF ANALYSIS**

Laboratory ID #:	125124	Account #:	29150
Reference:	Bridget Pettiford	Company:	CASH ACCOUNT
Location:	6000 Ten Oaks Road	Requested By:	Bridget Pettiford
	Clarksville, MD 21029	Source:	Well Water
Date/ Time Collected:	9/18/2018 1037	Site:	Pressure Tank
Date/Time Rec'd:	9/18/2018 1300	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	7.3
Collected By:	G. Lana 3799GL	Well #:	HO-17-0286

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	9/19/2018 / 0845 / RER
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	9/19/2018 / 0845 / RER

**NOTES**

- 1 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 2 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 3 ND:None Detected
- 4 pH & Chlorine level tested on site
- 5 Visual well check: Sealed, vented cap

**Reason for Test :** New Well - HCHDDate Reported: 9/19/2018



# FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
3/29/18	<p>Called Joe Mayne - new well is b/c an addition requires the well to be relocated. No building permit on file other than a walk-thru issued for basement alterations. Joe Mayne mentioned that there will be a new foundation. Stake form says that Fisher, Carter, &amp; Collins staked it - called them and they have no project for this address. (SC)</p>
4/2/18	<p>(443-756-3035) Spoke with Bridget Pettiford via phone. She said they intend to build an addition 'off the same side of the house where the well currently is and the well would be too close. I explained that the Health Dept needs plans of the proposed addition to determine if a perc cert is req'd before issuing a permit for a replacement well location. (SC)</p>
4/6/18	<p>Spoke with Ray Ramsey in office. I gave him a 'Well Stake Form' and suggested that it be completed by the engineering firm that is developing the Plot Plan for the proposed addition. Resubmit Form with a plan illustrating the entire proposed structure, the existing well and the proposed well location. I stated that the location may not be approved until a revision of the Percolation Certification Plan is signed. <del>BBuck</del></p>



# FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
4/12/18	<del>Ray</del> Ray Ramsey came into office to drop off well staked exhibit and form per R. Baker request (4/2/18). I spoke w/ Mike Davis on this situation. OK to release well permit for 'proposed addition' but need the 'OK' from owner not builder (OK)
4/18/18	Phone call made to owner. Left VM. Explained we would need something from her (as property owner) confirming 'OK' to give well permit for proposed addition prior to bp. review. Was able to get floor plan and remove addition. Will need pour cert plan developed, no pour & testing req'd. (see pour & valid). Will also need to certify OSD. All this confirmed thru MSD. (OK) → Visual should suffice (per Mike Davis)
	$SBR \text{ Design} = \frac{750 \text{ gal}}{1.2 \text{ gal/ft}^2} = 625 \text{ ft}^2 \div 2 \text{ inch} = 312.5 \text{ ft}^2 (.30) = 112.5 \text{ LF}$ <p>(System sized for SBR 4 + 1 BR proposal)</p>
5/18/18	Spoke with Mr. Ramsey and he will bring in floor plans for the additions for approval.
5/22/18	Need PC Revisions

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**Maura J. Rossman, M.D., Health Officer**

**MEMORANDUM**

**TO:** Bridget Pettiford  
6000 Ten Oaks Road  
Clarksville, MD 21029

**FROM:** Sarah Collins, L.E.H.S. SEC  
Howard County Health Department  
Well and Septic Program

**DATE:** May 18, 2017

**RE:** Abandonment of old well on property

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The old well on the property, #HO-81-1860, must be sealed by a licensed well driller prior to the approval of the building permit for the planned addition. This well will be less than 30' to the new foundation, the setback required by the *Code of Maryland Regulations 26.04.04.04B(c)*. The Health Department must receive documentation that the well was sealed prior to approval of the building permit.

Feel free to contact me at [SCollins@howardcountymd.gov](mailto:SCollins@howardcountymd.gov) or 410-313-6287 with any questions.

*Cc: File*

## Wolf, Kevin

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**From:** Wolf, Kevin  
**Sent:** Friday, April 20, 2018 11:22 AM  
**To:** 'Bridget'  
**Cc:** 'ray@cehbuilds.com'  
**Subject:** RE: 6000 Ten Oaks - Well Permit request

Bridget,

We can review and release the well permit now that I know you are 'ok' with this process. Normally the building permit (bp) is submitted first along with the floor plans. This way we can assess the proposal based on the existing property records (ex. well and septic) to determine the need to any upgrades. The well permit should be in review and ready for release by early next week.

As for the bp, your existing septic system is sized accordingly for the existing and proposed addition. That is, sizing for the 5<sup>th</sup> bedroom. However, this increase would be subject to a Percolation Certification (PC) plan per Howard County code section 3.805. You can find this information on our website by clicking the link here

→ <https://www.howardcountymd.gov/Departments/Health/Environmental-Health/Well-and-Septic>. Select the published link under **Onsite Sewage Disposal Systems** that says "Percolation Test and Plan for Developed Lots". This document will elaborate further on how to create the PC plan for your lot based on the provided proposal your requesting. We strongly encourage that you have an engineer or surveyor do this work as it can lead to a lot of confusion and excessive reviews. Submit 3 copies of the PC to our office, attn. Jeff Williams. Note that there are 10day reviews on all plan submittals.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS  
Groundwater Mgmt. Sec. Supervisor  
Well & Septic Program  
Bureau of Environmental Health  
8930 Stanford Blvd.  
Columbia, MD 21045  
(o) 410-313-2645  
(f) 410-313-2648



[kwolf@howardcountymd.gov](mailto:kwolf@howardcountymd.gov)

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## Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

[www.hchealth.org](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

Twitter: HowardCoHealthDep

Dr. Maura J. Rossman, M.D., Health Officer

## TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location:

6000  
Hunting Minor 4 Ten Oaks  
Subdivision/Property Name Lot # Road Name

- ☐ The well site has been staked by LANDMARK ENGINEERING, INC.  
(professional land surveyor or company employing professional land surveyors)  
on THURS, 4/19/18 (date) and does not require a site inspection.
- ☐ The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

LANDMARK ENGINEERING, INC.  
CHARLES GRIMSLEY  
PH. 301-230-5881



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**From:** Bridget [mailto:pettifordbridget@yahoo.com]  
**Sent:** Thursday, April 19, 2018 9:51 PM  
**To:** Wolf, Kevin  
**Subject:** 6000 Ten Oaks - Well Permit request

Hi Mr. Wolf-

Thank you so much for your message, I'm sorry I missed your call. I couldn't quite understand all the information regarding the septic but we are absolutely aware that this is a well upgrade/move due to the placement of the addition. Ray is working on our behalf simply because I am tied up managing the care of my father, have young boys, work full time and selling our hours and my parents...and he has been so kind to do so. We already had contracted Ray as our builder prior to the idea my mom had to move the well.

We are short on time and he is helping us move quickly because my dad has early onset Alzheimer's and the addition is for him and my mom who can no longer care for him at their current 2 story home. The sooner we all move into that house, the sooner my dad can be living on one level and have care and supervision that my husband and I would help to provide my mom. He is only 67 and we have been trying to do this move for a long time but we have only just been able to find a perfect location to do so. ALL EXCEPT FOR THE WELL:). We live in Hobbits Glen currently, and as you surely know, we can't add any first floor additions here that are suitable for our needs due to CA restrictions.

I am available tomorrow all day in between patients and am happy to take your call so I can answer any and all questions you might have. I very much appreciate your help with this and I apologize if Ray was a bit pushy- I know he has been getting frustrated and that may have come across in his presentation.

Again, thank you and please call me tomorrow!

Bridget Pettiford, OTR/L  
443-756-3035

SITE INSPECTION SHEET

OWNER: \_\_\_\_\_ PHONE #: \_\_\_\_\_

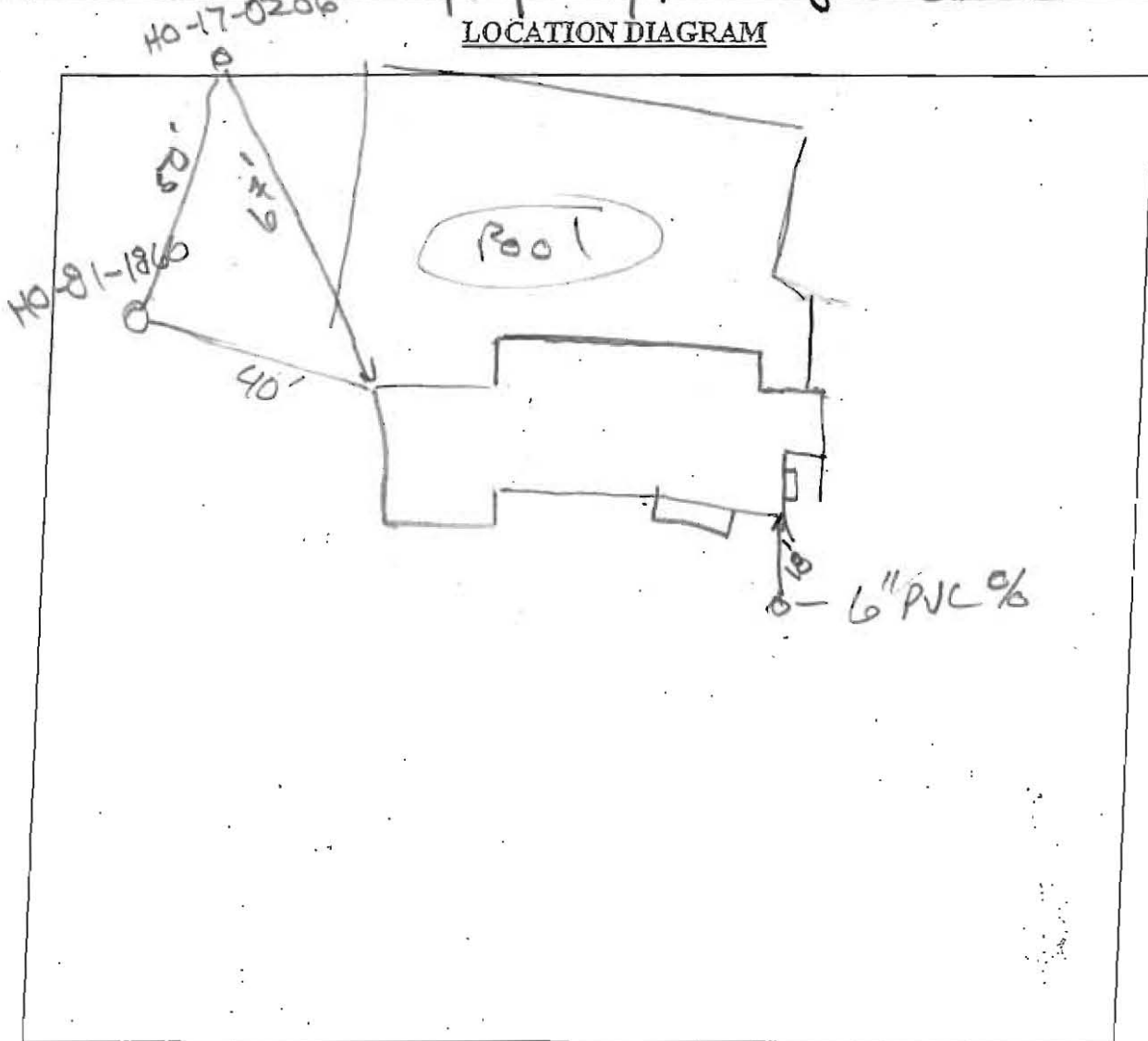
ADDRESS: 6000 Ten Oaks Rd CONTRACTOR: \_\_\_\_\_

WELL TAG #: \_\_\_\_\_

SUBDIVISION: \_\_\_\_\_ LOT: \_\_\_\_\_ COUNTY #: \_\_\_\_\_

PROPOSAL: Inspection for Kitchen renovation permit.  
Two wells on property; one just drilled.

LOCATION DIAGRAM



COMMENTS: Drive way 'island' appears sunken (1' below driveway elev).  
Appears 'wet' though water is not ponding

Coordinates obtained for both wells.

DATE: 5/14/18 INSPECTOR: R Bricker

<b>C1</b> <span style="font-size: 24pt; font-weight: bold;">3830</span>	SEQUENCE NO. (OEP USE ONLY)	<b>STATE OF MARYLAND</b> <b>WELL COMPLETION REPORT</b> FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.																										
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	COUNTY NUMBER <span style="font-size: 24pt; font-weight: bold;">A 34701</span>																												
DATE RECEIVED <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px;"></div>	DATE WELL COMPLETED <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px; text-align: center;">20077</div>	Depth of Well <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px; text-align: center;">250</div> (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" <div style="border: 1px solid black; width: 150px; height: 20px; margin: 5px; text-align: center;">40-81-1866</div>																										
OWNER <span style="font-size: 24pt; font-weight: bold;">CONTRACTORS</span> <span style="font-size: 24pt; font-weight: bold;">UNITED</span> STREET OR RFD. <span style="font-size: 24pt; font-weight: bold;">200 OAKS ROAD</span> first name SUBDIVISION <span style="font-size: 24pt; font-weight: bold;">HUNTINGTON MANOR</span> SECTION <span style="font-size: 24pt; font-weight: bold;">2</span> TOWN <span style="font-size: 24pt; font-weight: bold;">CLARKSVILLE</span> LOT <span style="font-size: 24pt; font-weight: bold;">4</span>																													
<b>WELL LOG</b> Not required for driven wells.		<b>GROUTING RECORD</b> WELL HAS BEEN GROUTED (Circle Appropriate Box) <span style="font-size: 24pt; font-weight: bold;">Y</span> <span style="font-size: 24pt; font-weight: bold;">N</span> TYPE OF GROUTING MATERIAL CEMENT <span style="font-size: 24pt; font-weight: bold;">CM</span> BENTONITE CLAY <span style="font-size: 24pt; font-weight: bold;">BC</span> NO. OF BAGS <span style="font-size: 24pt; font-weight: bold;">33</span> NO. OF POUNDS <span style="font-size: 24pt; font-weight: bold;">3128</span> GALLONS OF WATER <span style="font-size: 24pt; font-weight: bold;">231</span> DEPTH OF GROUT SEAL (to nearest foot) from <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px;"></div> to <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px; text-align: center;">40</div> ft. (enter 0 if from surface)																											
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING		<b>PUMPING TEST</b> HOURS PUMPED (nearest hour) <span style="font-size: 24pt; font-weight: bold;">43</span> PUMPING RATE (gal. per min. to nearest gal.) <span style="font-size: 24pt; font-weight: bold;">7</span> METHOD USED TO MEASURE PUMPING RATE <span style="font-size: 24pt; font-weight: bold;">S</span> (to nearest gal.) WATER LEVEL (distance from land surface) BEFORE PUMPING <span style="font-size: 24pt; font-weight: bold;">30</span> WHEN PUMPING <span style="font-size: 24pt; font-weight: bold;">175</span> TYPE OF PUMP USED (for test) <span style="font-size: 24pt; font-weight: bold;">A</span> air <span style="font-size: 24pt; font-weight: bold;">P</span> piston <span style="font-size: 24pt; font-weight: bold;">T</span> turbine <span style="font-size: 24pt; font-weight: bold;">C</span> centrifugal <span style="font-size: 24pt; font-weight: bold;">R</span> rotary <span style="font-size: 24pt; font-weight: bold;">O</span> other (describe below) <span style="font-size: 24pt; font-weight: bold;">J</span> jet <span style="font-size: 24pt; font-weight: bold;">S</span> submersible																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">DESCRIPTION (Use additional sheets if needed)</th> <th colspan="2">FEET</th> <th rowspan="2">Check if water bearing</th> </tr> <tr> <th>FROM</th> <th>TO</th> </tr> </thead> <tbody> <tr> <td>gray sand</td> <td>0</td> <td>88</td> <td></td> </tr> <tr> <td>gray schist</td> <td>88</td> <td>110</td> <td></td> </tr> <tr> <td>water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>gray schist</td> <td>110</td> <td>160</td> <td></td> </tr> <tr> <td>gray schist</td> <td>160</td> <td>250</td> <td></td> </tr> </tbody> </table>		DESCRIPTION (Use additional sheets if needed)	FEET		Check if water bearing	FROM	TO	gray sand	0	88		gray schist	88	110		water				gray schist	110	160		gray schist	160	250		<b>CASING RECORD</b> casing types insert appropriate code below <span style="font-size: 24pt; font-weight: bold;">ST</span> <span style="font-size: 24pt; font-weight: bold;">CO</span> STEEL CONCRETE <span style="font-size: 24pt; font-weight: bold;">PL</span> <span style="font-size: 24pt; font-weight: bold;">OT</span> PLASTIC OTHER MAIN CASING TYPE <span style="font-size: 24pt; font-weight: bold;">ST</span> Nominal diameter top (main) casing (nearest inch) <span style="font-size: 24pt; font-weight: bold;">6</span> Total depth of main casing (nearest foot) <span style="font-size: 24pt; font-weight: bold;">101</span> OTHER CASING (if used) diameter inch <div style="border: 1px solid black; width: 50px; height: 20px; margin: 5px;"></div> depth (feet) from <div style="border: 1px solid black; width: 50px; height: 20px; margin: 5px;"></div> to <div style="border: 1px solid black; width: 50px; height: 20px; margin: 5px;"></div>	
DESCRIPTION (Use additional sheets if needed)	FEET		Check if water bearing																										
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gray schist	160	250																											
CIRCLE APPROPRIATE LETTER <b>A</b> A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED <b>E</b> ELECTRIC LOG OBTAINED <b>P</b> TEST WELL CONVERTED TO PRODUCTION WELL		<b>SCREEN RECORD</b> screen type or open hole insert appropriate code below <span style="font-size: 24pt; font-weight: bold;">ST</span> <span style="font-size: 24pt; font-weight: bold;">BR</span> <span style="font-size: 24pt; font-weight: bold;">HO</span> STEEL BRASS OPEN HOLE <span style="font-size: 24pt; font-weight: bold;">PL</span> <span style="font-size: 24pt; font-weight: bold;">OT</span> PLASTIC OTHER DEPTH (nearest ft.) <span style="font-size: 24pt; font-weight: bold;">101</span> <span style="font-size: 24pt; font-weight: bold;">250</span> SLOT SIZE <span style="font-size: 24pt; font-weight: bold;">1</span> <span style="font-size: 24pt; font-weight: bold;">2</span> <span style="font-size: 24pt; font-weight: bold;">3</span> DIAMETER OF SCREEN <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px;"></div> (NEAREST INCH) <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px; text-align: center;">60</div> from <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px;"></div> to <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px;"></div> GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 <span style="font-size: 24pt; font-weight: bold;">68</span> OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) T. <span style="font-size: 24pt; font-weight: bold;">70</span> (E.R.O.S.) <span style="font-size: 24pt; font-weight: bold;">72</span> WQ <span style="font-size: 24pt; font-weight: bold;">74</span> <span style="font-size: 24pt; font-weight: bold;">75</span> <span style="font-size: 24pt; font-weight: bold;">76</span> TELESCOPE CASING LOG INDICATOR OTHER DATA																											
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 10.17.13 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.		<b>PUMP INSTALLED</b> DRILLER WILL INSTALL PUMP YES <span style="font-size: 24pt; font-weight: bold;">NO</span> (CIRCLE) (YES OR NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE. <span style="font-size: 24pt; font-weight: bold;">36</span> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px;"></div> PUMP HORSE POWER <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px;"></div> PUMP COLUMN LENGTH (nearest ft.) <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px;"></div> CASING HEIGHT (circle appropriate box and enter casing height) + above } LAND SURFACE (nearest foot) <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px; text-align: center;">1</div> - below } <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px;"></div>																											
DRILLERS IDENT. NO. <span style="font-size: 24pt; font-weight: bold;">353</span> DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) <div style="border: 1px solid black; width: 150px; height: 40px; margin: 5px;"></div>		LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL) <div style="border: 1px solid black; width: 150px; height: 100px; margin: 5px; text-align: center; transform: rotate(-45deg);">             100'           </div>																											
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)		HEALTH																											