

B 1	0714	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 527808 please type	STATE PERMIT NUMBER 40-95-1300 fill in this form completely
Date Received (APA) 8 MM DD YY 13 <u>Shanley</u> <u>Matthew</u> 15 Last Name Owner First Name 34 <u>1734 Underwood Road</u> 36 Street or RFD 55 <u>Sykesville, MD 21784</u> 57 Town 70 State 72 Zip 76		OWNER INFORMATION LOCATION OF WELL B 3 <u>Howard</u> 8 COUNTY 21 23 SUBDIVISION 42 SECTION 44 46 LOT <u>3</u> 48 50 <u>Sykesville</u> 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) <u>3</u> M I 73 76 77 78		
DRILLER INFORMATION <u>Daniel Patton</u> <u>MSD 1663</u> Driller's Name 76 License No. 81 <u>Patton Well Drilling</u> Firm Name <u>6810 Cornell Road Baltimore, MD 21220</u> Address <u>Daniel Patton</u> <u>9/16/07</u> Signature Date		WELL INFORMATION B 2 1 2 APPROX. PUMPING RATE (GAL. PER MIN.) 8 <u>N/A</u> 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20		
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input checked="" type="checkbox"/> GEO-THERMAL <u>3-250' wells</u>		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <u>Howard</u> <u>46645</u> COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT \$ 41 DATE ISSUED <u>10/10/07</u> <u>10/10/08</u> 43 MM DD YY 48 NORTH GRID <u>542</u> 0 0 0 55 EAST GRID <u>804</u> 0 0 0 57 63		
APPROXIMATE DEPTH OF WELL <u>250</u> FEET 24 28 APPROXIMATE DIAMETER OF WELL <u>6</u> INCH NEAREST INCH		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE E <u>8004</u> N <u>5402</u> 000 000		
METHOD OF DRILLING (circle one) BORED (or Augered) <u>JETTED</u> Jetted & DRIVEN 30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) 37 CABLE REVERSE-ROTary Drive-POINT other		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 		
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED 39 <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 <input type="checkbox"/> THIS WELL WILL DEEPEMED AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52		Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER <u>40-95-1300</u> PERMIT No. 70 71 72 73 74 75 76 77 78 79		
SPECIAL CONDITIONS <u>Grant w/ COMAR approval Grant Bottom to Top</u>				

C 1 1944	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT 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
ST/CO USE ONLY DATE Received MM DD YY 8 13	DATE WELL COMPLETED MM DD YY 10-18-07 15 20	Depth of Well 22 250 26 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-1300 28 29 30 31 32 33 34 35 36 37

OWNER <u>Shanley</u>	STREET OR RFD <u>1734 Underwood Road</u>	TOWN <u>Sykesville</u>	SECTION <u>3</u>
SUBDIVISION		LOT <u>3</u>	

WELL LOG Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING <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>Brown soil</td> <td>0</td> <td>20</td> <td></td> </tr> <tr> <td>Gray rock</td> <td>20</td> <td>250</td> <td></td> </tr> </tbody> </table>	DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing	FROM	TO	Brown soil	0	20		Gray rock	20	250		GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT <input checked="" type="checkbox"/> CM BENTONITE CLAY <input checked="" type="checkbox"/> BC NO. OF BAGS <u>12</u> NO. OF POUNDS <u>600</u> GALLONS OF WATER <u>288</u> DEPTH OF GROUT SEAL (to nearest foot) from <u>0</u> ft. to <u>250</u> ft. (enter 0 if from surface) CASING RECORD casing types insert appropriate code below <table style="width:100%;"> <tr> <td><input checked="" type="checkbox"/> N/A</td> <td><input checked="" type="checkbox"/> ST STEEL</td> <td><input checked="" type="checkbox"/> CO CONCRETE</td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> PL PLASTIC</td> <td><input checked="" type="checkbox"/> OT OTHER</td> </tr> </table> <table style="width:100%;"> <tr> <td>MAIN CASING TYPE</td> <td>Nominal diameter top (main) casing (nearest inch)</td> <td>Total depth of main casing (nearest foot)</td> </tr> <tr> <td></td> <td><u>60</u> <u>61</u> <u>63</u> <u>64</u> <u>66</u> <u>70</u></td> <td></td> </tr> </table> OTHER CASING (if used) diameter inch depth (feet) from to E A C H C A S I N G _____ _____ SCREEN RECORD screen type or open hole (insert appropriate code below) <table style="width:100%;"> <tr> <td><input checked="" type="checkbox"/> N/A</td> <td><input checked="" type="checkbox"/> ST STEEL</td> <td><input checked="" type="checkbox"/> BR BRASS</td> <td><input checked="" type="checkbox"/> HO OPEN HOLE</td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> PL PLASTIC</td> <td><input checked="" type="checkbox"/> OT OTHER</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> ST STEEL	<input checked="" type="checkbox"/> CO CONCRETE		<input checked="" type="checkbox"/> PL PLASTIC	<input checked="" type="checkbox"/> OT OTHER	MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)	Total depth of main casing (nearest foot)		<u>60</u> <u>61</u> <u>63</u> <u>64</u> <u>66</u> <u>70</u>		<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/> ST STEEL	<input checked="" type="checkbox"/> BR BRASS	<input checked="" type="checkbox"/> HO OPEN HOLE		<input checked="" type="checkbox"/> PL PLASTIC	<input checked="" type="checkbox"/> OT OTHER		C 3 PUMPING TEST HOURS PUMPED (nearest hour) <u>8</u> <u>9</u> PUMPING RATE (gal. per min.) <u>11</u> <u>15</u> METHOD USED TO MEASURE PUMPING RATE _____ WATER LEVEL (distance from land surface) BEFORE PUMPING <u>17</u> <u>20</u> ft. WHEN PUMPING <u>22</u> <u>25</u> ft. TYPE OF PUMP USED (for test) <table style="width:100%;"> <tr> <td><input checked="" type="checkbox"/> A air</td> <td><input checked="" type="checkbox"/> P piston</td> <td><input checked="" type="checkbox"/> T turbine</td> </tr> <tr> <td><input checked="" type="checkbox"/> C centrifugal</td> <td><input checked="" type="checkbox"/> R rotary</td> <td><input checked="" type="checkbox"/> O other (describe below)</td> </tr> <tr> <td><input checked="" type="checkbox"/> J jet</td> <td><input checked="" type="checkbox"/> S submersible</td> <td></td> </tr> </table> PUMP INSTALLED 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. <u>N/A</u> CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <table style="width:100%;"> <tr> <td><input checked="" type="checkbox"/> + above</td> <td rowspan="2">LAND SURFACE (nearest foot)</td> </tr> <tr> <td><input checked="" type="checkbox"/> - below</td> </tr> </table>	<input checked="" type="checkbox"/> A air	<input checked="" type="checkbox"/> P piston	<input checked="" type="checkbox"/> T turbine	<input checked="" type="checkbox"/> C centrifugal	<input checked="" type="checkbox"/> R rotary	<input checked="" type="checkbox"/> O other (describe below)	<input checked="" type="checkbox"/> J jet	<input checked="" type="checkbox"/> S submersible		<input checked="" type="checkbox"/> + above	LAND SURFACE (nearest foot)	<input checked="" type="checkbox"/> - below
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NUMBER OF UNSUCCESSFUL WELLS: <u>0</u> WELL HYDROFRACTURED <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO 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 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. DRILLERS LIC. NO. <u>MSD 163</u> <u>Daniel Roth</u> DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. <u>D</u> SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	C 2 DEPTH (nearest ft.) <table style="width:100%;"> <tr> <td>E A C H S R E E N</td> <td>8 9 11 15 17 21</td> <td>23 24 26 30 32 36</td> <td>38 39 41 45 47 51</td> </tr> </table> SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN (NEAREST INCH) <u>58</u> <u>60</u> from to GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 <u>68</u> MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA	E A C H S R E E N	8 9 11 15 17 21	23 24 26 30 32 36	38 39 41 45 47 51	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) <u>see attached</u>
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