

<b>C1</b>	7101	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 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)				
ST/CO USE ONLY DATE Received MM DD YY 02 12 09		DATE WELL COMPLETED MM DD YY 3-1-08		Depth of Well 22 300 26 (TO NEAREST FOOT)
PERMIT NO. FROM "PERMIT TO DRILL WELL" 140-95-1501				
COUNTY NUMBER 13 A 28669				
OWNER <u>Alan</u> STREET OR RFD <u>2433 Wood stream</u> TOWN <u>Ellicott City</u> SUBDIVISION _____ SECTION _____ LOT _____				
<b>WELL LOG</b> Not required for driven wells		<b>GROUTING RECORD</b>		
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING		WELL HAS BEEN GROUTED (Circle Appropriate Box) YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
DESCRIPTION (Use additional sheets if needed)	FEET FROM TO	TYPE OF GROUTING MATERIAL (Circle one) CEMENT <input checked="" type="checkbox"/> BENTONITE CLAY <input type="checkbox"/>		
top Soil yellow Sand Clay Clay Mixed Gravel - large Hard Rock - soft Brn Soft Rock Gray Rock	0 1 1 20 20 30 30 40 40 60 60 100 100 300	NO. OF BAGS <u>30</u> NO. OF POUNDS <u>1500</u> GALLONS OF WATER <u>150</u> DEPTH OF GROUT SEAL (to nearest foot) from <u>0</u> ft. to <u>300</u> ft. (enter 0 if from surface)		
		<b>CASING RECORD</b>		
		casing types insert appropriate code below STEEL <input checked="" type="checkbox"/> CONCRETE <input type="checkbox"/> PLASTIC <input type="checkbox"/> OTHER <input type="checkbox"/>		
		MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot) 60 61 63 64 66 70		
		OTHER CASING (if used) diameter inch depth (feet) from to PL 1 1		
		<b>SCREEN RECORD</b>		
		screen type or open hole insert appropriate code below STEEL <input checked="" type="checkbox"/> BRASS <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> BRONZE <input type="checkbox"/> PLASTIC <input type="checkbox"/> OTHER <input type="checkbox"/>		
NUMBER OF UNSUCCESSFUL WELLS: _____		<b>C2</b> DEPTH (nearest ft.) 1 2 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) 56 60 from to		
WELL HYDROFRACTURED YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 68		
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		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		
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.		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) Front Geo Field		
DRILLERS LIC. NO. 1 M SD 106 DRILLER'S SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 MS D 204		SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)		

03-308057

B 1 **7540** SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 528418 please type

STATE PERMIT NUMBER 140-95-1501 fill in this form completely

Date Received (APA) 12/20/07

8 MM DD YY 13

OWNER INFORMATION

15 Last Name Owner First Name 34

2433 Wood Stream Court

36 Street or RFD 55

Ellisott City Md 21042

57 Town 70 State 72 Zip 76

DRILLER INFORMATION

Driller's Name Marshall Arnette M S D 106

76 License No. 81

Firm Name Allied Environmental Services

Address PO Box 1242, Miller'sville Md 21108

Signature Marshall Arnette Date 12/17/07

B 2 WELL INFORMATION

1 2 APPROX. PUMPING RATE (GAL. PER MIN.) 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

☐ D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

☐ F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

☐ I INDUSTRIAL, COMMERCIAL, DEWATERING

☐ P PUBLIC WATER SUPPLY WELL

☐ T TEST, OBSERVATION, MONITORING

☒ G GEO-THERMAL 3 Closed Loops

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 2 INCH NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)

37 CABLE REVERSE-ROTARY Drive-POINT

other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

☒ N THIS WELL WILL NOT REPLACE AN EXISTING WELL

☐ Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39 ☐ S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

☐ D 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)

APPROX. PERMIT NUMBER G

PERMIT No. 140-95-1501

70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS Grouts Need to be called in 24 hours before starting

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

B 3 LOCATION OF WELL

8 COUNTY 21

23 SUBDIVISION 42

SECTION 44 46 LOT 48 50

52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 0 M I

73 76 77 78

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

8 8 8 8 8 8 8 8

2433 Wood Stream Ct

11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH

WEST 32 EAST

SOUTH

34 37

DISTANCE FROM ROAD

ENTER FT OR MI 38 39

TAX MAP: 16 BLK: 07 PARCEL 392

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 A28669

COUNTY NAME COUNTY NO.

STATE SIGNATURE INSERT S 41

DATE ISSUED 1/15/08 Kim Way 1/15/09

43 MM DD YY 48 CO SIGNATURE EXP. DATE

NORTH GRID 535 000 EAST GRID 0818 000

50 55 57 63

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

1 Driller Well

2.

3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 810000

N 530000

000 000

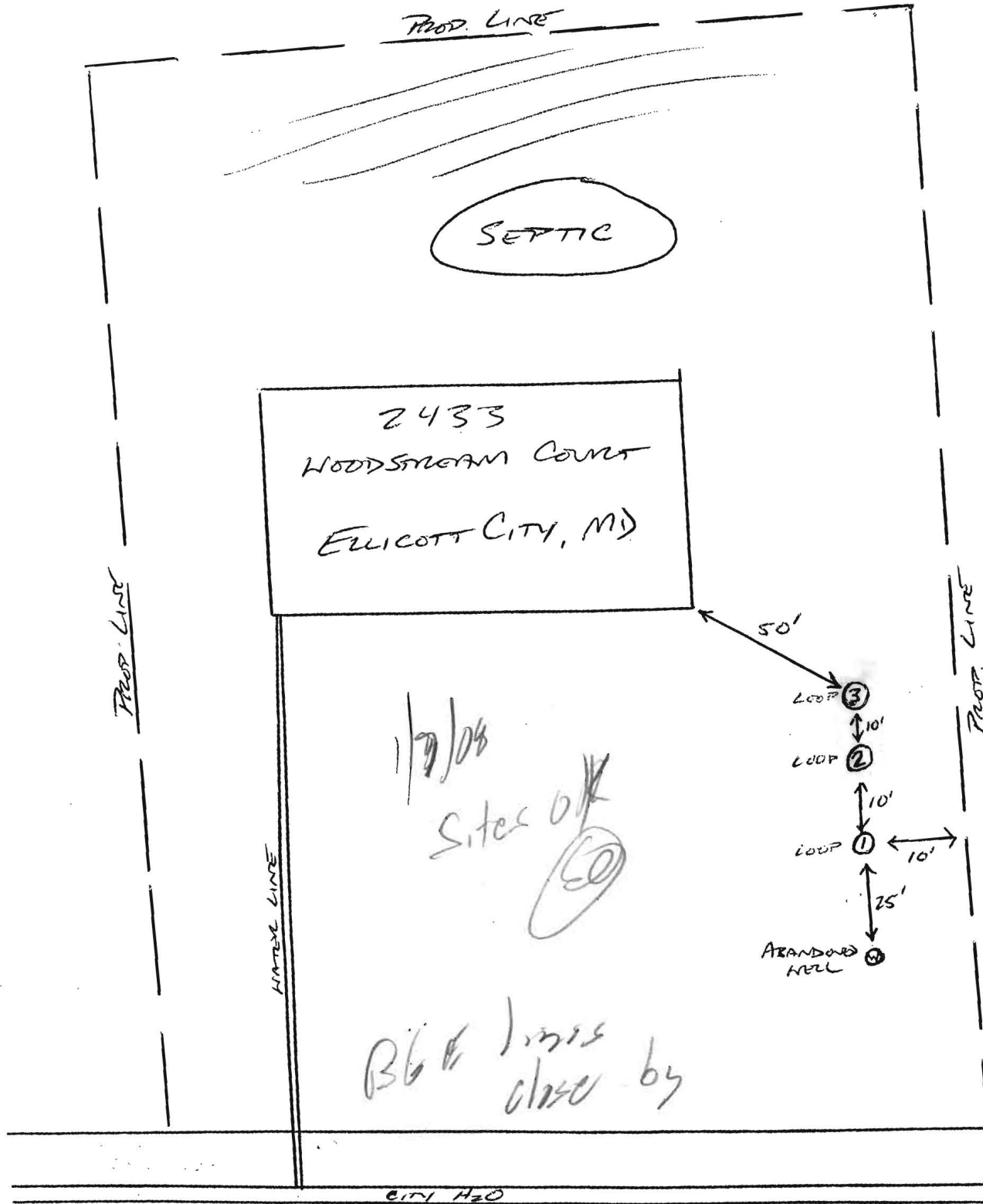
DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

10/F/3

N

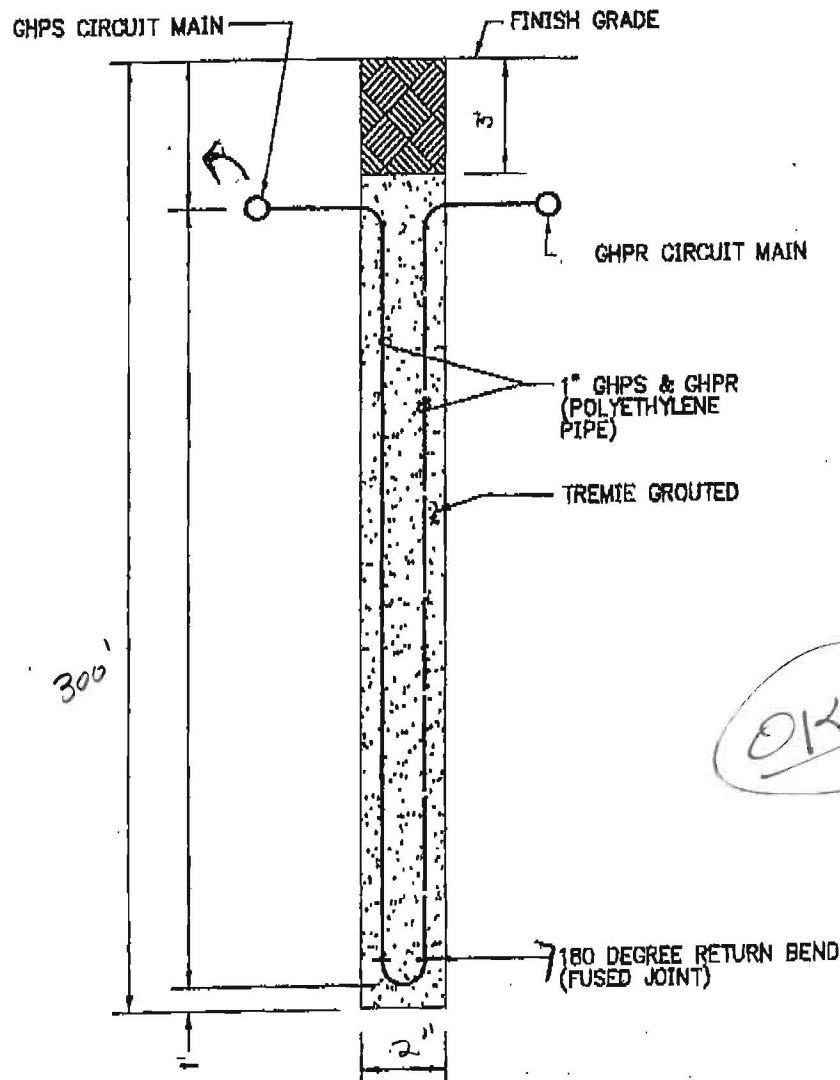
Wood Stream Court

Land Hill Rd



WOODSTREAM COURT

Grouted with Bentonite Clay

DETAIL  $\frac{1}{M0.1}$ TYPICAL GHPS/GHPR CIRCUIT MAINS BELOW GRADE  
NOT TO SCALEDETAIL  $\frac{2}{M0.1}$ TYPICAL VERTICAL BOREHOLE  
NOT TO SCALE



Grouting Calculator																																				
Enter Hole diameter, inches	5.5																																			
Enter Casing OD, inches	2.6																																			
Enter Depth, ft	300																																			
Annular Volume, gallons	285																																			
<table border="0"> <tr> <td><b>AQUAGUARD™</b></td> <td><b>EZ-SEAL™</b></td> <td><b>HOLEPLUGG</b></td> </tr> <tr> <td>Sacks 10</td> <td>15% Solids Sacks 8</td> <td>Sacks 65</td> </tr> <tr> <td>Water, gallons 282</td> <td>Water, gallons 284</td> <td></td> </tr> <tr> <td></td> <td>20% Solids Sacks 11</td> <td></td> </tr> <tr> <td><b>QUICK-GROUT®</b></td> <td>Water, gallons 284</td> <td><b>BENSEAL®</b></td> </tr> <tr> <td>Sacks 71</td> <td>23% Solids Sacks 13</td> <td>Sacks 65</td> </tr> <tr> <td>Water, gallons 284</td> <td>Water, gallons 280</td> <td></td> </tr> <tr> <td><b>BENSEAL®EZ-MIX® Slurry</b></td> <td colspan="2"></td> </tr> <tr> <td>BENSEAL® Sacks 9</td> <td colspan="2"></td> </tr> <tr> <td>EZ-MIX® gallons 0.7</td> <td colspan="2"></td> </tr> <tr> <td>Water, gallons 270</td> <td colspan="2"></td> </tr> </table>				<b>AQUAGUARD™</b>	<b>EZ-SEAL™</b>	<b>HOLEPLUGG</b>	Sacks 10	15% Solids Sacks 8	Sacks 65	Water, gallons 282	Water, gallons 284			20% Solids Sacks 11		<b>QUICK-GROUT®</b>	Water, gallons 284	<b>BENSEAL®</b>	Sacks 71	23% Solids Sacks 13	Sacks 65	Water, gallons 284	Water, gallons 280		<b>BENSEAL®EZ-MIX® Slurry</b>			BENSEAL® Sacks 9			EZ-MIX® gallons 0.7			Water, gallons 270		
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<p>HOLEPLUGG® and BENSEAL® are designed to be poured or tremied into place dry.</p> <p>Amounts assume gauge hole. Actual application may take 10% to 25% additional product.</p>																																				

OK

(Kw)