

**C1** 24153 SEQUENCE NO. (MDE USE ONLY) **STATE OF MARYLAND WELL COMPLETION REPORT** THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLUMNS 3-6 ON ALL CARDS) FILL IN THIS FORM COMPLETELY PLEASE TYPE COUNTY NUMBER

ST/CO USE ONLY DATE Received MM 05 DD 28 YY 13 DATE WELL COMPLETED MM 03 DD 30 YY 13 Depth of Well 22 320 26 (TO NEAREST FOOT) PERMIT NO. FROM "PERMIT TO DRILL WELL" #0 - 95 - 2472

OWNER ARAABAI CLARE WELL SITE ADDRESS 8729 Mt. PATRASCOT CT TOWN ELICOTT CITY, 21043 SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

**WELL LOG**  
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Soil	0	6	
Brown clay	6	17	
Red clay	17	33	
Brown shale	33	67	
med Gray Rock	67	320	

3 bores x 320

**GROUTING RECORD** yes  no   
WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**

TYPE OF GROUTING MATERIAL (Circle one)  
CEMENT **CM** BENTONITE CLAY **BC**

NO. OF BAGS 30 NO. OF POUNDS 1500  
GALLONS OF WATER 750  
DEPTH OF GROUT SEAL (to nearest foot)  
from 0 TOP 52 ft. to 320 BOTTOM 58 ft. (enter 0 if from surface)

**CASING RECORD**

casing types insert appropriate code below

**ST** STEEL **CO** CONCRETE  
**PL** PLASTIC **OT** OTHER

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)**  
EACH CASING diameter inch depth (feet) from to

**SCREEN RECORD**

screen type or open hole (insert appropriate code below)

**ST** STEEL **BR** BRASS **HO** OPEN HOLE  
**PL** PLASTIC **OT** OTHER

**C2** DEPTH (nearest ft.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

SLOT SIZE 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_  
DIAMETER OF SCREEN (NEAREST INCH) \_\_\_\_\_  
from \_\_\_\_\_ to \_\_\_\_\_

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 \_\_\_\_\_

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

**C3** **PUMPING TEST**

HOURS PUMPED (nearest hour) \_\_\_\_\_ 8 9

PUMPING RATE (gal. per min.) \_\_\_\_\_ 11 15

METHOD USED TO MEASURE PUMPING RATE \_\_\_\_\_

WATER LEVEL (distance from land surface)  
BEFORE PUMPING \_\_\_\_\_ 17 20 ft.  
WHEN PUMPING \_\_\_\_\_ 22 25 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

**PUMP INSTALLED**

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

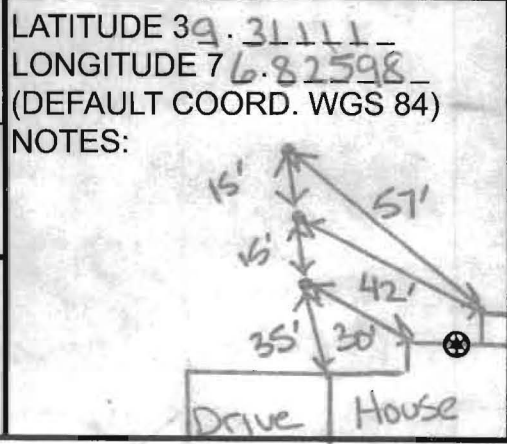
TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 \_\_\_\_\_

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 } LAND SURFACE  
**-** below } (nearest foot)  
49 \_\_\_\_\_ 50 51



NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes  no  **Y** **N**

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. M D 355  
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)  
LIC. NO. AWD 902

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

<b>B 1</b>	<b>18628</b>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND <b>APPLICATION FOR PERMIT TO DRILL WELL</b> 544503 please type	STATE PERMIT NUMBER <b>HO-95-2472</b> <small>fill in this form completely</small>
------------	--------------	--------------------------------	--	---

**OWNER INFORMATION**

Date Received (APA) 01/07/13  
8 MM DD YY 13

Accabal Clare  
15 Last Name Owner First Name 34

8929 mt. Patapsco ct  
36 Street or RFD 55

Ellicott City MD 21042  
57 Town 70 State 72 Zip 76

**LOCATION OF WELL**

Howard  
8 COUNTY 21

Patapsco Park Estates  
23 SUBDIVISION 42

SECTION 3 LOT 55  
44 46 48 50

Ellicott City  
52 NEAREST TOWN 71

**DRILLER INFORMATION**

Michael Barlow MW D355  
Driller's Name 76 License No. 81

Barlow Well Drilling  
Firm Name

522 Underwood Lane 21014  
Address

[Signature] 1/2/13  
Signature Date

**SOURCES OF DRILLING WATER**

1. Well

2. \_\_\_\_\_

3. \_\_\_\_\_

8929 mt. Patapsco ct  
11 STREET ADDRESS 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH
WEST
<b>S</b>
EAST
SOUTH

150 34 37 DISTANCE FROM ROAD

ENTER FT OR MI FT 38 39

TAX MAP: 17 BLK: 11 PARCEL 330

**WELL INFORMATION**

APPROX. PUMPING RATE (GAL. PER MIN.) 0  
8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 0  
14 20

**USE FOR WATER (CIRCLE APPROPRIATE BOX)**

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

INDUSTRIAL, COMMERCIAL, DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

OPEN LOOP GEOTHERMAL

CLOSED LOOP GEOTHERMAL 3 bores x 320'

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**

Howard (Public) 13  
COUNTY NAME COUNTY NO.

STATE SIGNATURE \_\_\_\_\_ INSERT S → 41

DATE ISSUED 1/18/2013 Brian Baker 1/18/2014  
43 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 320 FEET  
24 28

APPROXIMATE DIAMETER OF WELL 6 INCH  
NEAREST INCH

PROPOSED LOCATION OF WELL ON LOT  
SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL

**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)**

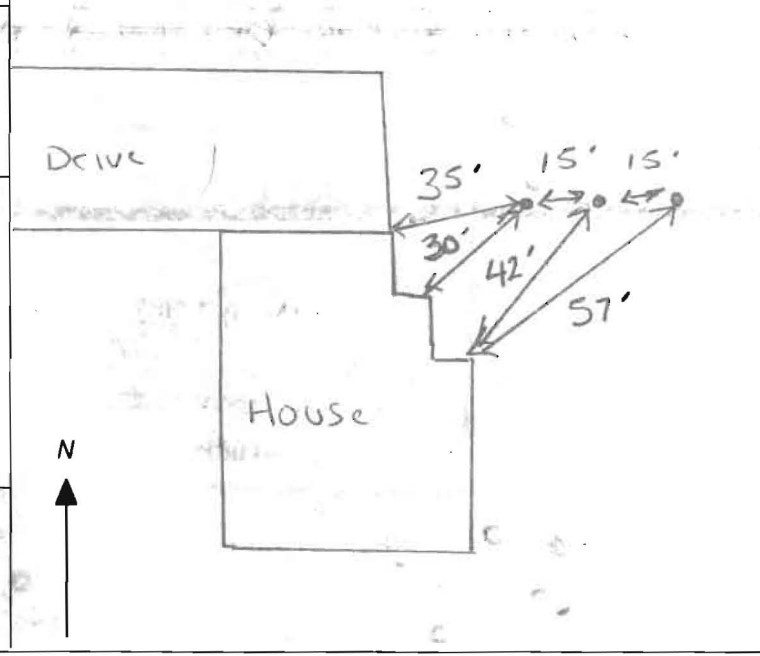
THIS WELL WILL NOT REPLACE AN EXISTING WELL

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

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

THIS WELL WILL DEEPEM 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 \_\_\_\_\_ **G** \_\_\_\_\_

PERMIT No. HO-95-2472  
70 71 72 73 74 75 76 77 78 79

**SPECIAL CONDITIONS**  
NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

**MICHAEL BARLOW WELL DRILLING  
522 UNDERWOOD LANE  
BEL AIR, MD 21014  
410-838-6910**

Howard County Health Department  
7178 Columbia Gateway Drive  
Columbia, MD 21046  
Fax: 410-313-2648

January 2, 2013

Re: 8929 Mount Patapsco Court, Ellicott City, Columbia

Dear Department of Environment:

Please note unless otherwise specified all geothermal bores installed by our company will be installed as follows:

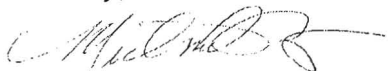
Grout: Bentonite Grout 20% solids minimum  
Manufacture(s): Baroid or Wyo-Ben  
Will be grouted from the bottom to the top with grout material

Piping: Polyethylene SDR 11 160 PSI as recommended per IGSHPA  
Manufacture: EnDot or Charter Plastics or equal, Size 1" or 1 ¼"  
IGSHPA Certification Number 12687

Also attached is a cross section diagram of the bore hole.

We would appreciate your help in getting this permit released as soon as possible so that we can expedite this project. If you have any questions, please do not hesitate to contact me.

Sincerely,



Michael Barlow

S 31° 33' 45" E - 87.50'    S 34° 33' 52" E - 40.00'

B.R.L.  
LOT N<sup>o</sup>. 55  
PATAPSCO PARK  
ESTATES  
Lots 35 to 58  
Section 3 Area 3  
Plat No. 7858

SCALE: 1" = 50'

300.45'

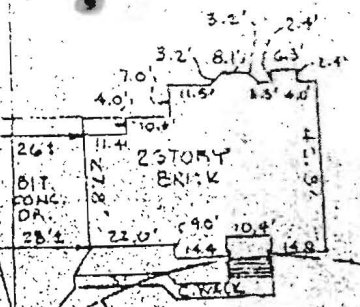
200.00'

B.R.L.  
10'

B.R.L.

562° 49' 40" W 10'

562° 49' 40" W



798.74' TO FILLET  
@ FURROW AVENUE

581° 14' 08" W 94.70' 10'

N 27° 10' 20" W 25.32'

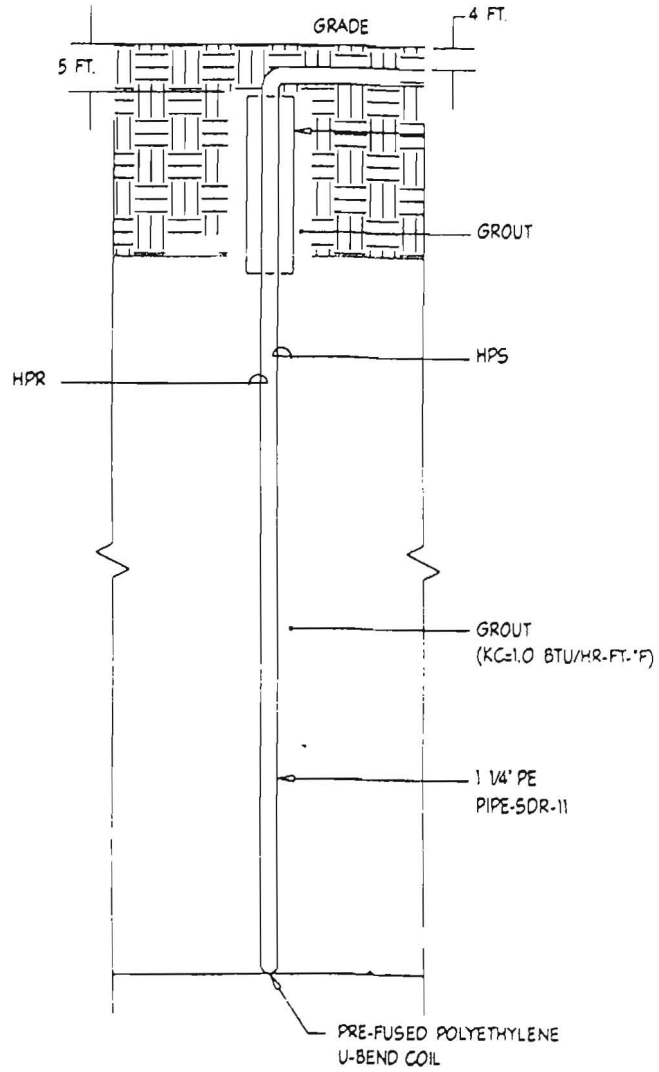
R = 50.00'  
L = 58.12'  
R = 25.00'  
L = 21.03'

MT. PATAPSCO COURT

Geo Bores

Public water + Sewer

This is to certify that I have surveyed the property known as LOT N<sup>o</sup>. 55 PATAPSCO PARK ESTATES, Lots 35 to 58, Sec. 3, Area 3 - 2<sup>nd</sup> Election Dist. Howard County, Maryland,



4 TYPICAL BORE HOLE DETAIL  
 M1.00 NOT TO SCALE