

HOWARD COUNTY HEALTH DEPARTMENT

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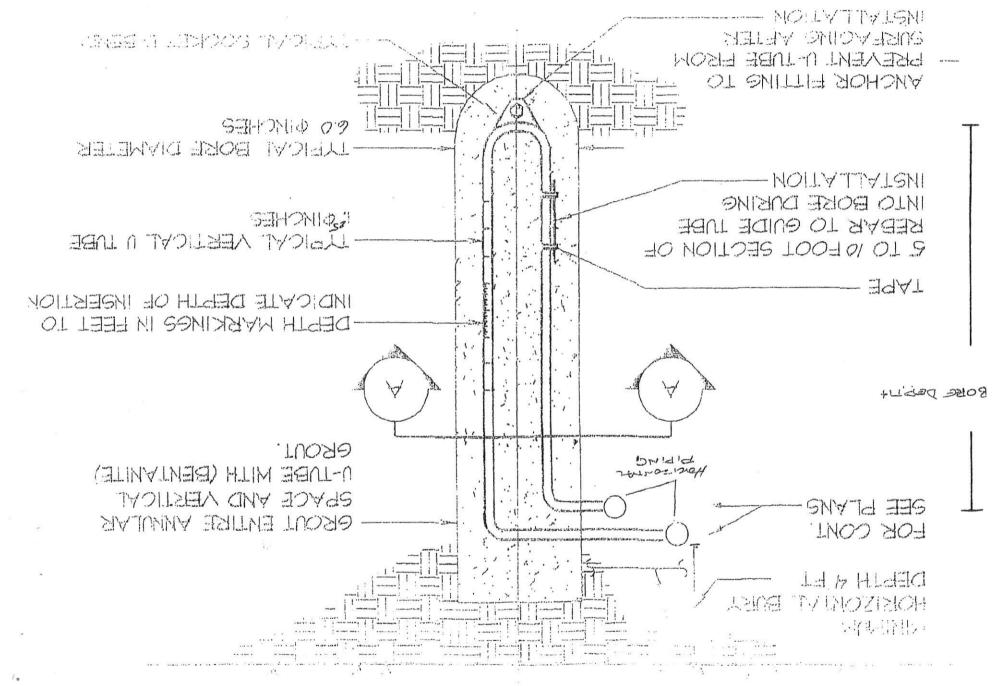
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C 1 60549 SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER	
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	FILL IN THIS FORM COMPLETELY PLEASE TYPE		
DATE Received MM DD YY 8 13 15	Depth of Well 22 (TO NEAREST FOOT)	FROM "PERMIT TO DRILL WELL" 28 29 30 31 32 33 34 35 36 3	
OWNER Bazelon, Cheman	- Podricie		
WELL SITE ADDRESS last name 4965	Tridelphia Plisthame TOWN	Glorela MD	
SUBDIVISION	SECTION	LOT	
WELL LOG	GROUTING RECORD YES NO	C 3	
Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST	
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	TYPE OF GROUTING MATERIAL (Circle one)	HOURS PUMPED (nearest hour)	
DESCRIPTION (Use additional sheets if needed) FEET Check if water bearing	NO. OF BAGS 46 NO. OF POUNDS 45 019	PUMPING RATE (gal. per min.)	
Bin Clay 0 70	GALLONS OF WATER	METHOD USED TO	
0 0 1 70 400	DEPTH OF GROUT SEAL (to nearest foot) from ft. to ft. to ft.	MEASURE PUMPING RATE	
Greg Kock 10 Teg	(enter 0 if from surface)	BEFORE PUMPING ft.	
	types insert CASING RECORD CO	17 20	
	(appropriate code STEEL CONCRETE	WHEN PUMPING 22 25 ft.	
	below PLASTIC OTHER	TYPE OF PUMP USED (for test) A air P piston T turbine	
	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	27 27 27 other	
	TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary 0 (describ	
	60 61 63 64 86 70	J jet S submersible	
	E OTHER CASING (if used) A diameter depth (feet)		
	H inch from to	PUMP INSTALLED /	
	A S	DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO)	
	g — — — — — — — — — — — — — — — — — — —	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.	
	screen type or open hole COLT COLT COLD	TYPE OF PUMP INSTALLED	
	insert STEEL BRASS OPEN	IN BOX 29.	
	appropriate BRONZE HOLE	CAPACITY: GALLONS PER MINUTE	
2 Mixed Loops /	below PL OT	(to nearest gallon) 31 36	
0 0000 1	COLUMN DEPTH (CONTRACTOR)	PUMP HORSE POWER 37 41	
NUMBER OF UNSUCCESSFUL WELLS:	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)	
WELL HYDROFRACTURED Yes N	E 1 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)	
CIRCLE APPROPRIATE LETTER	C 2	+ above LAND SURFACE	
A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	S C 3	_ below (nearest	
E ELECTRIC LOG OBTAINED	R 38 39 41 45 47 51	49 50 51 foot)	
P TEST WELL CONVERTED TO PRODUCTION WELL	E SLOT SIZE 1 2 3	LATITUDE 39 . 23960	
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	DIAMETER (NEAREST INCH)	LONGITUDE 7 7. 02548	
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.	56 60	(DEFAULT COORD. WGS 84)	
6 .10/	1 0/vmnae 7	Pursuant to §10-624 of the State Govt. Article of the Maryand Code personal info. requested on	
111 1111	GRAVEL PACK	this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info.	
DRILLERS SIGNATURE	WAS FLOWING WELL INSERT F IN BOX 68 68	may result in this form not being processed. You	
(MUST MATCH SIGNATURE ON APPLICATION)	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	have the right to inspect, amend, or correct this form. The Maryland Department of the	
LIC. NO.1 D I	T (E.R.O.S.) W Q	Environment is subject to the Maryland Public Information Act. This form may be made	
	70 72	available on the Internet via MDE's website and is subject to inspection or copying, in whole or in	
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	TELESCOPE LOG 74 75 76	part, by the pulic and other governmental	
responsible for sitework if different from permittee)	CASING INDICATOR OTHER DATA	agencies, if not protected by federal or state law.	

B 1 SEQUENCE NO.	STATE OF	MARYLAND	STATE PERMIT NUMBER	
I I I I I I I I I I I I I I I I I I I		ERMIT TO DRILL WELL	1/2 19 -100	
	And the second of the second o	e type	10 - 10 - 019+	
1 2 3	piodo	507 000 * 1 7,67500	fill in this form completely	
Date Received (APA)		B 3	LOCATION OF WELL	
8 MM DD YY 13 OWNER INFOR	RMATION	HOWA	Ya	
Progoton Odamo	n+ PatriciTIE	8 COUNTY	21	
15 Last Name Owner	First Name 34	I Lindsey	Slanding KSB HZ,	
140/25 Trion of all al	First Name 34	23 SUBDIVISION	42	
36 Street or RFD	119 19 55	SECTION I	1071	
G L ONO A LO NOO	2173755	SECTION 44 46	LOT 48 50	
57 Town 70 State	72 Zip 76	· Clanel	λ .	
DRILLER INFORMATION	72 Zip 76	52 NEAREST TOWN	71	
Marchal Harrotte	SIN			
	M D D	B 4		
Driller's Name	6 License No. 81	SOURCES OF DRILLING WATER	14915 Triodolphia Pl	
Firm Name	THY	1.	11 STREET ADDRESS 30	
Potry DO Anna palice	Thoras MA (30)	2.	2.2220400000	
Address	Manin Ch.	3.	ON WHICH SIDE OF ROAD	
Address	AC LUDON	1	(CIRCLE APPROPRIATE BOX)	
Signature	Date 104 1470		WEST S EAST	
B 2 WELL INFORMATION	Date		34 37 SÕUTH DISTANCE FROM ROAD	
1 2 APPROX. PUMPING RATE —			ENTER FT OR MI 38 39	
(GAL. PER MIN.)	8 12		ENTER PT OR MI 30 39	
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14	20		TAX MAP: BLK: PARCEL	
USE FOR WATER (CIRCLE AP		NOT TO	BE FILLED IN BY DRILLER	
—		HEALTH	H DEPARTMENT APPROVAL	
D DOMESTIC POTABLE SUPPLY & RESIDE IRRIGATION	INTIAL	1		
F FARMING (LIVESTOCK WATERING & AGE	RICULTURAL	HOWARD	13	
IRRIGATION)		COUNTY NAME	COUNTY NO.	
22 I INDUSTRIAL, COMMERCIAL, DEWATERII	NG	STATE SIGNATURE	INSERT S	
P PUBLIC WATER SUPPLY WELL		DATE ISSUED	1 41/	
T TEST, OBSERVATION, MONITORING		105/08/2010	505/80/20	
O OPEN LOOP GEOTHERMAL	2 1	43 MM DD YY 48	CO SIGNATURE EXP. DATE	
C CLOSED LOOP GEOTHERMAL	7011	Dod. Slula	ma:	
	s we	DDODGO	ED LOCATION OF WELL ONLOT	
40	D		ED LOCATION OF WELL ON LOT ICTURES SUCH AS BUILDINGS, SEPTIC SYSTEM,	
APPROXIMATE DEPTH OF WELL 24	PEET 28	그 내 아내가 보기 어떻게 되었다면 가 있었다면 하고 하고 있었다면 하다가 되었다면 하는 것이 없었다.	MARKS AND INDICATE NOT LESS THAN TWO	
ADDDONUALTE DIAMETED OF WELL	NEAREST	DISTAN	CE MEASUREMENTS TO WELL	
APPROXIMATE DIAMETER OF WELL	INCH	5 14 20 = 1St borg Co	mpleted	
METHOD OF DRILLING	(circle one)	80' casing		
BORED (or Augered) JETTED	Jetted & DRIVEN	dulle		
30	ROTARY (Hydraulic Rotary)	dry hole	16.4	
37 CABLE REVerse-ROTary	DRive-POINT	100P 100 11/3ta	(ka	
other	<u> </u>	and	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		7 pore -		
REPLACEMENT OR DEEPE (CIRCLE APPROPRIATE		@ 200'	3	
N THIS WELL WILL NOT REPLACE AN EXIST		80' (asi-9		
THIS WELL WILL BERLAGE A WELL THAT		dry love	2 24	
ABANDONED AND SEALED	THE DE		3	
S THIS WELL WILL REPLACE A WELL THAT				
39 AS A STANDBY-CONTACT LOCAL APPROV	ING AUTHORITY		suant to § 10-624 of the State Govt. Article of the	
D THIS WELL WILL DEEPEN AN EXISTING W	ELL	Mar	yland Code, personal info requested on this form ed in processing this form pursuant to COMAR	
PERMIT NUMBER OF WELL TO BE REPLACED O		26.0	4.04. Failure to provide the info may result in	
(IF AVAILABLE) 41	- 52	N this	form not being processed. You have the right to	
Not to be filled in by driller (MDE OR C	COUNTY USE ONLY)	insp Den	ect, amend, or correct this form. The Maryland artment of the Environment is subject to the	
110 to be filled in by driller (MDE ON C	CONTITUOE ONLY	Mar	yland Public Information Act. This form may be	
APPROP. PERMIT NUMBER	G	mad	e available on the Internet via MDE's website and	
115	10 4100	is su	bject to inspection or copying, in whole or in part ne public and other governmental agencies, if not	
PERMIT No. HO	-18-0197	prot	ected by federal or State Law.	
	72 73 74 75 76 77 78 79	1		
SPECIAL CONDITIONS NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED-	CALL IN T	RILLING ACTI	VITIES:	

HOWARD COUNTY GROUTING PROCEDURE

Boreholes will be grouted from the bottom to the top via a tremie pipe and positive displacement pump. Bentonite grout, known as Quik-Grout will be used according to the manufacturer's specifications to achieve a consistency of at least 20% solids (24 gallons potable water/50 lb. sack of grout) and a permeability no more than 2.5 E(-08) cm/sec. Grouting will be completed immediately after installing the geothermal loop and no later than twenty-four (24) hours after installing the geothermal loop. Open boreholes/annular space will be protected as necessary to prevent the entry of surface water or pollutants.



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