C 1 65171 (MDE USE ONL	STATE OF MARTLAND	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)	FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER
ST/CO USE ONLY DATE Received MM DD  8 13 15	MPLETED Approved Depth of Well  22  20  5/19/20 (TO NEAREST FOOT)  26	PERMIT NO. FROM "PERMIT TO DRILL WELL"
OWNER TOU Bro	ALYS first name C	
WELL SITE ADDRESS	TOWN C	Micott City
SUBDIVISION KINGS LOTES	SECTION	LOT 3 /8
Not required for driven wells	WELL HAS BEEN GROUTED (V)N	C 3
STATE THE KIND OF FORMATIONS PENETRATED, THI COLOR, DEPTH, THICKNESS AND IF WATER BEARIN	(Circle Appropriate Box)	PUMPING TEST 3
DESCRIPTION (Use FEET if	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
additional choose in necessary Price 10 Be	NO. OF BAGS 46 NO. OF POUNDS 45 46 GALLONS OF WATER	PUMPING RATE (gal. per min.)
Clay 08	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
600 /c/a 8 21	from 48 TOP 52 ft. to 54 BOTTOM 58 ft.	WATER LEVEL (distance from land surface)
sura, or	(enter 0 if from surface)  Casing CASING RECORD	BEFORE PUMPING 31 ft.
Gray Linesta 2/80	types insert ST CO	WHEN PUMPING
Fracture 80 81	code below PL OT	TYPE OF PUMP USED (for test)
Grantinestan 81 160	MAIN Nominal diameter Total depth	A air P piston T turbine
Jul 160 162	CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O (descri
Frankelouis	ST 60 61 63 64 66 70	27 below)
Cotallinestock 2/1)	60 61 63 64 66 70  E OTHER CASING (if used)	J jet S submersible
Or agrain	diameter depth (feet)	
	C	DRILLER INSTALLED PUMP YES NO
	k	(CIRCLE) (YES or NO)  IF DRILLER INSTALLS PUMP, THIS SECTION
	screen type SCREEN RECORD	MUST BE COMPLETED FOR ALL WELLS.  TYPE OF PUMP INSTALLED
	or open fole ST BR HO	PLACE (A,C,J,P,R,S,T,O) 29 IN BOX 29.
	insert appropriate code BRONZE BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
	below PL OT PLASTIC OTHER	(to nearest gallon) 31
	C 2 DEPTH (nearest ft.)	PUMP HORSE POWER  37
NUMBER OF UNSUCCESSFUL WELLS:	= 12 LA 35' 105'	PUMP COLUMN LENGTH (nearest ft.)
WELL HYDROFRACTURED Yes	E 1 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box
CIRCLE APPROPRIATE LETTER	C 2 H 23 24 26 30 32 36	49 LAND SURFACE
A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	S C 3	below
P TEST WELL CONVERTED TO PRODUCTION WELL	R 38 39 41 45 47 51 E E SLOT SIZE 1 2 3	49 50 51
HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTION ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"	N SECTORET 2 3	LATITUDE 3 9. <u>255036</u> LONGITUDE 76. 881780
N CONFORMANCE WITH ALL CONDITIONS STATED IN THE AI CAPTIONED PERMIT, AND THAT THE INFORMATION PRESE HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF	OF SCREEN INCH)	(DEFAULT COORD. WGS 84)
KNOWLEDGE.	from to	Pursuant to §10-624 of the State Govt. Article of the Maryand Code personal info. requested on
DRILLERS LIC. NO. 1, M S D 2 2 4	I GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL	this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info.
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	INSERT F IN BOX 68 68	may result in this form not being processed. You have the right to inspect, amend, or correct this
LIC. NO.1 D	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)  T (E.R.O.S.) W Q	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
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	70 72 TELESCOPE LOG 74 75 76	subject to inspection or copying, in whole or in part, by the pulic and other governmental
	CASING INDICATOR OTHER DATA  COUNTY	agencies, if not protected by federal or state law.

APPROXIMATE DEPTH OF WELL  APPROXIMATE DAMEETER DO DEPTH WE SEEDENTIAL  DEPTH OF WELL  APPROXIMATE DAMEETER DO DEPTH WELL  APPROXIMATE DAMEETER DO WELL  APPROXIMATE DAMEETER DAMEETER DO WELL  APPROXIMATE DAMEETER DO WELL  APP	R	1 SEQUENCE NO.	STATE OF	MARYLAND	STATE PERMIT NUMBER
Detail Recovered (RPA)  a will color by the control of the color of th	Ľ		a la	AND THE RESERVE OF THE PARTY OF	110 - 10 - 0169
Date Pecceived (APA)  OWNER INFORMATION  Service of Prod Name  Say Submission  Owner First Name  Submission		00727	2007		70 79
Service of PED	1		266427		fill in this form completely
STREET OF THE STATE OF THE STAT	ı	11/14/19		B 3	LOCATION OF WELL
SPECIAL CONDITIONS WILLS  To PRINT TO SERVICE OF DEPENDENCE WILL SECONDY  APPROX MARKET BOY MILL SECONDY WILLS  STORY APPROX MARKET BOY WILL SECONDY WILLS  APPROX MARKET BOY WILL SECOND WILLS  APPROX MARKET BOY OF CONTROL APPROPRIATE BOX OF SECONDY APPROPRIATE BOX OF SECONDY WILLS  APPROX MARKET BOY WILL SECOND AS ARROCULTURAL REASON OF SECOND WILLS  APPROX MARKET BOY WILL SECON			RMATION	Manon	1
Signature of Fig. 1. Date of F	ı	Tall Brothers		8 COUNTY	21
Signature of Fig. 1. Date of F	ı	15 Last Name Owner	First Name 34	Kincis Fo	CEST !
DRILLER INFORMATION  DOUBLET-HUMBE  DRILLER INFORMATION  M D D D D D D D D D D D D D D D D D D		Olla H Calusabia Cash	0.00.00	23 SUBDIVISION	42
DRILLER INFORMATION  DOUGLET HUMBER  DRILLER INFORMATION  M D D D D D D D D D D D D D D D D D D		36 Street or RED	CULLY LK.	SECTION 1	1011 181
DRILLER INFORMATION  M D D SO SOME SET TOWN  THE STREET ADDRESS  30  ON WHICH SIDE OF ROAD  ADDRESS OF DEPLICATION OF WELL STREET ADDRESS  30  ON WHICH SIDE OF ROAD  ON WHICH SIDE OF	ı	The sale of Divil	1		48 50
DRILLER INFORMATION  M D D SO SOME SET TOWN  THE STREET ADDRESS  30  ON WHICH SIDE OF ROAD  ADDRESS OF DEPLICATION OF WELL STREET ADDRESS  30  ON WHICH SIDE OF ROAD  ON WHICH SIDE OF	ı	57 Town 70 State	72 7in 76	1. Ellicott	- City
Describing  M D Describing  M D Lesies No. 81  B 2 WELL INFORMATION APPROX. PIMPING RATE GAL PER MIN. 8 12  AVENAGE DAILY QUANTITY REFER 1	Г	To otato	TE EIP 70	52 NEAREST TOWN	71
DOTION NAME  FIRM Name  Address  Signature  Signature  Signature  Address  Signature  Signatu		1. 1. 11	1100000		
SOURCES OF DRILLING WHITE STRUCTURES SUCH AS BUILDING SEPTION TO WELL WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVED WELLS  APPROXIMATE DIAMETER OF WELL				B 4	Pudding Lane
Signature  Date  State 3  Signature  Date  State 3  Signature  Date  State 3  Signature  Dots WHICH SIDE OF ROAD  CIRCLE APPROPRIATE BOX  DISTANCE FROW PROPRIATE BOX  STATE OF ROAD  STAT		Forks (1011 Dalling	/ / / /		DA SIDIS PHA
Address Signature    B   2		Firm Name	, lle		11 STREET ADDRESS 30
Signature    Signature   Date   D	ı	PA Bay 2021 landhing	11/2/2000	.4011 -400	5
Signature    B   Z   WELL INFORMATION   5   2   2   2   2   3   3   3   3   3   3	ı	Address	ING al. M.	Control of the Contro	ON WHICH SIDE OF ROAD
Signature    B   2   WELL INFORMATION   Date		11001	11 1 19	logpm	(CIRCLE APPROPRIATE BOX) WEE
B 2 WELL INFORMATION APPROX. PUBLIFIED  12 AVERAGE DAILY QUANTITY REDED  14 20  WES FOR WATER ICIRCLE APPROPRIATE BOX) DESCRIPTION AS A SENDENTIAL  E FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) E FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) C OPEN LOOP GEOTHERMAL C CLOSED LOOP GEOTHERMAL C CLOSED LOOP GEOTHERMAL C CLOSED LOOP GEOTHERMAL C CLOSED LOOP GEOTHERMAL DATE ISSUED  APPROXIMATE DEPTH OF WELL METHOD OF DRILLING (circle one) BORED (or Augered) BORED (or Augered) BORED (or Augered) JETTED Jeted & DRIVEN BORED (or Augered) JETTED JETT		Signature / free	- //-/-/		WEST S EAST
APPROXIMATE DEPTH OF WELL  APPROXIMATE DEPTH OF			Date		
AVERAGE DAILY QUANTITY REEDED    VSE FOR WATER (CIRCLE APPROPRIATE BOX)	Н	1 2 APPROX. PUMPING RATE -			F-1
USE FOR WATER (CIRCLE APPROPRIATE BOX) DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION) F. FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) TO DESTINATE OWNERCIAL, DEWATERING PUBLIC WATERING PUBLIC WATER SUPPLY WELL THEST COBSENVATION, MONITORING O OPEN LOOP GEOTHERMAL C. CLOSED LOOP GEOTHERMAL APPROXIMATE DEPTH OF WELL APPROXIMATE DEPTH OF WELL APPROXIMATE DIAMETER OF WELL BORREST SHOW A STATE SUPPLY WELL THIS WELL WILL DEPTH OF WELL WETHOD OF DRILLING (circle one) BORBED (or Augored) JETTED Jetted & DRIVEN BORREST SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL WILL HAVE PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL WILL HAVE PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL WITHIS WELL WILL LOTE REPLACE A WELL THAT WILL BE USED ABADONED AND SEALED  ARBADONED AND SEALED  APPROPRIED OF WELL TO BE REPLACED OR DEEPENED FINE WELL WILL LOTE REPLACE A WELL THAT WILL BE USED AS A STANDBY-OWICATOL LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS FOR THIS WELL WILL DEPTH AND WELL STATEMENT STOWELL  APPROXIMATE DIAMETER OF WELL TO BE REPLACED OR DEEPENED FINE WELL WILL DEPTH AND WELL STATEMENT STOWELL STATEMENT STOWELL STATEMENT STOWELL STATEMENT STOWELL STATEMENT STOWELL STATEMENT STOWERS STORED STATEMENT STOWERS STATEMENT STOWERS STORED STATEMENT STOWERS STORED STATEMENT STOWERS STATEMENT STOWERS STATEMENT STOWERS STORED STATEMENT STOWERS STATE		(GAL. PER MIN.)	8 12	tomp 130	00 00 000
DOMESTIC POTABLE SUPPLY A RESIDENTIAL RINGATION  F FARMING (LIVESTOCK WATERING & AGRICULTURAL RINGATION)  EN PLANDL (AVENTAGE OF MELL OF MELL AND ARREST OF MELL OF MELL AND ARREST OF MELL OF			500	Bendonite	TAX MAP: S BLK: S PARCELI
DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION)    F   FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)     F   FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)     F   PUBLIC WATER SUPPLY WELL     T   TEST, OBSERVATION, MONITORING     O   OPEN LOOP GEOTHERMAL     C   CLOSED LOOP GEOTHERMAL     APPROXIMATE DEPTH OF WELL     APPROXIMATE DEPTH OF WELL     APPROXIMATE DEPTH OF WELL     APPROXIMATE DEPTH OF WELL     APPROXIMATE DIAMETER OF WELL     APPROXIMATE DIAMETER OF WELL     APPROXIMATE DIAMETER OF WELL     APPROXIMATE DIAMETER OF WELL     APPROXIMATE DEPTH OF WELL     APPROXIMATE DE	H			NOT TO	O BE FILLED IN BY DRILLER
IRRIGATION	ı	/_\			
IRRIGATION)  22 INDUSTRIAL, COMMERCIAL, DEWATERING PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING O OPEN LOOP GEOTHERMAL C CLOSED LOOP GEOTHERMAL C CLOSED LOOP GEOTHERMAL  APPROXIMATE DEPTH OF WELL APPROXIMATE DIAMETER OF WELL APPROXIMATE	ı			2010. SOCIO DO CONTROL DE SOCIO DE CONTROL DE SOCIO DE CONTROL DE	
INDUSTRIAL, COMMERCIAL, DEWATERING   PUBLIC WATER SUPPLY WELL   T TEST, OBSERVATION, MONITORING   OPEN LOOP GEOTHERMAL   DATE ISSUED   DATE ISSUED   OPEN LOOP GEOTHERMAL   OPEN LOOP	ı	F FARMING (LIVESTOCK WATERING & AG	RICULTURAL	Howard	13
PUBLIC WATER SUPPLY WELL  T TEST, OBSERVATION, MONITORING O OPEN LOOP GEOTHERMAL  APPROXIMATE DEPTH OF WELL APPROXIMATE DEPTH OF WELL APPROXIMATE DIAMETER OF WELL  METHOD OF DRILLING (circle one) BORED (or Augreed) JETTED Jetted & DRIVEN GIRCLE APPROPRIATE BOX)  NEAREST INCH  REVERSE-ROTary  DRIVEN-POINT oither  REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)  THIS WELL WILL NOT REPLACE A WELL THAT WILL BE ABANDONED AND SEALED DTHIS WELL WILL DEEPEN A EXISTING WELL FOR POLICY ON STANDBY WELLS (IF AVAILABLE)  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE)  PERMIT NO BETT OR DEEPENED OR DEEPENED SEMINATION OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE)  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE)  PERMIT NO BETT OR TO BE STANDED WELLS (IN IN I	l	IRRIGATION)		SECTION AND SECURITIONS	COUNTY NO.
PUBLIC WATER SUPPLY WELL  T TEST, OBSERVATION, MONITORING O OPEN LOOP GEOTHERMAL  C CLOSED LOOP GEOTHERMAL  APPROXIMATE DEPTH OF WELL  24  28  APPROXIMATE DEPTH OF WELL  24  28  NEAREST INCH  METHOD OF DRILLING (circle one)  JETTED  Jetted & DRIVEN  METHOD OF DRILLING (circle one)  JETTED  Jetted & DRIVEN  OTHER WELL WILL REPLACE A WELL THAT WILL BE  ABANDONED AND SALED  THIS WELL WILL REPLACE A WELL THAT WILL BE  ABANDONED AND SEALED  THIS WELL WILL TO BE REPLACED OR DEEPENED  (IF AVAILABLE)  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE)  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  PERMIT NO.  D THIS WELL WILL OBE REPLACED OR DEEPENED  (IF AVAILABLE)  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE)  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE)  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE)  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE)  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPRO	2	2 I INDUSTRIAL, COMMERCIAL, DEWATER	NG		INSERT S
O OPEN LOOP GEOTHERMAL  C CLOSED LOOP GEOTHERMAL  APPROXIMATE DEPTH OF WELL  24  28  APPROXIMATE DEPTH OF WELL  APPROXIMATE DEPTH OF WELL  APPROXIMATE DIAMETER OF WELL  METHOD OF DRILLING (circle one)  AIR-PERcussion  AIR-	ı	P PUBLIC WATER SUPPLY WELL			
APPROXIMATE DEPTH OF WELL  APPROXIMATE DIAMETER 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  APPROXIMATE DIAMETER 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  APPROXIMATE DIAMETER 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  APPROXIMATE DIAMETER 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 ON LOT SHOW PROXIMATE AND INDICATE NOT LESS THAN TWO  DISTANCE MEASUREMENTS TO WELL ON LOT SHOW PROXIMATE AND INDICATE NOT LESS THAN TWO  DISTANCE MEASUREMENTS TO WELL ON LANDMARKS AND INDICATE NOT LESS THAN TWO  DISTANCE MEASUREMENTS TO WELL ON LANDMARKS AND INDICATE NOT LESS THAN TWO  DISTANCE MEASUREMENTS TO WELL ON LANDMARKS AND INDICATE NOT LESS THAN TWO  DISTANCE MEASUREMENTS TO WELL ON LANDMARKS AND INDICATE NOT LESS THAN TWO  TO WELL ON LANDMARK AND INDICATE NOT LANDMARK AND INDICATE NOT LANDMARK AND INDICATE NOT LESS THAN TWO  TO WELL ON LANDMARK AND INDICATE NOT LANDMARK AND INDICAT	ı	T TEST, OBSERVATION, MONITORING		101/21/20	Lusa /hones 01/21/2021
APPROXIMATE DEPTH OF WELL  APPROXIMATE DIAMETER OF WELL  APPROXIMATE DIAMETER OF WELL  METHOD OF DRILLING (circle one)  JETTED  Jetted & DRIVEN  AIR-PERcussion  ROTARY (Hydraulic Rotary)  JETTED  JOHN PROPOSITION 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  WELL WILL REPLACE AN EXISTING WELL  THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  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 DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE) 41  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP PERMIT NUMBER  PERMIT NUMBER  PERMIT NUMBER  APPROP PERMIT NUMBER  PERMIT NUMBER  APPROP PERMIT NUMBER  APPR	ı	O OPEN LOOP GEOTHERMAL		43 MM DD YY 48	CO SIGNATURE EXP. DATE
APPROXIMATE DEPTH OF WELL  APPROXIMATE DIAMETER OF WELL  APPROXIMATE DIAMETER OF WELL  METHOD OF DRILLING (circle one)  Jettled  Jettled & DRIVEN  AIR-PERcussion  ROTARY (Hydraulic Rotary)  AIR-PERcussion  ROTARY (Hydraulic Rotary)  This Well Will REPLACE A WELL THAT WILL BE  ABANDONED AND SEALED  THIS WELL WILL REPLACE A WELL THAT WILL BE  ABANDONED AND SEALED  THIS WELL WILL REPLACE A WELL THAT WILL BE  ABANDONED AND SEALED  THIS WELL WILL REPLACE A WELL THAT WILL BE  AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY  FOR POLICY ON STANDBY WELLS  (IF AVAILABLE)  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP PERMIT NUMBER  PROPORED TEMELL SEMENT TO WELL THAT WILL BE ADAILY AND THE MEAN THE LON LICE SHAPE TO WELL THE NUMBER TO WELL THAT WILL BE ADAILY AND THE MEAN	ı	C CLOSED LOOP GEOTHERMAL		mali alaulana (	212 26 1 0 2 2/2/66
APPROXIMATE DIAMETER OF WELL  APPROXIMATE DIAMETER OF WELL  APPROXIMATE DIAMETER OF WELL  METHOD OF DRILLING (circle one)  BORED (or Augered)  JETTED  Jetted & DRIVEN  AIR-ROTary  AIR-PERcussion  ROTARY (Hydraulic Rotary)  TOTHIS WELL WILL NOT REPLACE AN EXISTING WELL  THIS WELL WILL REPLACE AN EXISTING WELL  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 DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE)  APPROP PERMIT NUMBER  APPROP P	H	-		min. That more (21)	200 2/26/20(ST) DOV : 2/26/30 ST
APPROXIMATE DIAMETER OF WELL  METHOD OF DRILLING (circle one)  JETTED  Jetted & DRIVEN  AIR-PCRussion  ROTARY (Hydraulic Rotary)  AIR-PCRUSSION  REVerse-ROTary  DRIVE-POINT  other  REPLACEMENT OR DEEPENED WELLS  (CIRCLE APPROPRIATE BOX)  Not this Well Will replace A well that will be used as a standby-contract local approving authority  FOR POLICY ON Standby Wells  THIS Well Will REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY  FOR POLICY ON STANDBY Wells  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE) 41  PERMIT NO. 100 - 180 - 110 - 180 - 110 - 180 - 110 - 180 - 110 - 180 - 180 - 110 - 180 -	l	27		1	
APPROXIMATE DIAMETER OF WELL  METHOD OF DRILLING (circle one)  JETTED  Jetted & DRIVEN  AIR-PErcussion  ROTARY (Hydraulic Rolary)  Other  REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)  Nother  REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)  Not IN BELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS (IF AVAILABLE)  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP. PERMIT NUMBER DEEPEN AND EXISTING WELL  PERMIT NO.  P	ı	APPROXIMATE DEPTH OF WELL 24	PEET 28		
METHOD OF DRILLING (circle one)  BORED (or Augered)  JETTED  Jetted & DRIVEN  AIR-ROTary  AIR-PERcussion  ROTARY (Hydraulic Rolary)  DRIve-POINT  other  REPLACEMENT OR DEEPENED WELLS  (CIRCLE APPROPRIATE BOX)  Not this Well Will replace A Well That Will BE USED  ABANDONED AND SEALED  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 DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE)  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP PERMIT NUMBER  PERMIT NO.	H		NEAREST	DIOTAL	
METHOD OF DRILLING (circle one)  BORED (or Augered)  JETTED  Jetted & DRIVEN  AIR-ROTary  AIR-PERcussion  ROTARY (Hydraulic Rotary)  DRive-POINT  other  REPLACEMENT OR DEEPENED WELLS  (CIRCLE APPROPRIATE BOX)  IN JHIS WELL WILL NOT REPLACE AN EXISTING WELL  THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS  D THIS WELL WILL DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE)  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP. PERMIT NUMBER  PERMIT NO. 70 71 72 73 74 75 76 77 78 79  SPECIAL CONDITIONS WELL  SPECIAL CONDITIONS WELL  WELL STANDBY OF THE METHOR OF TRANSPORTS AND THE METHOD TO THE ME	ı	APPROXIMATE DIAMETER OF WELL			L'C
BORED (or Augered)  JETTED  Jetted & DRIVEN  AIR-PERcussion  ROTARY (Hydraulic Rotary)  TABLE  REVerse-ROTary  DRIve-POINT  Other  REPLACEMENT OR DEEPENED 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  THIS WELL WILL REPLACE A WELL THAT WILL BE AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS  D 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 REPLACE OR DEEPENED  (IF AVAILABLE)  AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS  D THIS WELL WILL DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE)  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  APPROP. PERMIT NUMBER  PERMIT NO. TO BE REPLACED OR DEEPENED  AND THE STANDARY CONTROL TO BE REPLACED OR TO BE A STANDARY CONTROL TO BE REPLACED OR TO BE A STANDARY CONTROL TO BE REPLACED OR TO BE A STANDARY CONTROL TO BE REPLACED OR TO BE A STANDARY CONTROL TO BE REPLACED OR TO BE A STANDARY CONTROL TO BE REPLACED OR TO BE A STANDARY CONTROL TO BE A S	H	METHOD OF DRILLING	(circle one)	- 42.17.00	Septi
AIR-ROTary  AIR-PERcussion  REVerse-ROTary  DRIve-POINT other  REPLACEMENT OR DEEPENED 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  THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE)  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP PERMIT NUMBER  PERMIT NO. 10 - 18 - 16 8  PERMIT NO. 10 - 18 -	ı			30' bed mek	
REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)  N THIS WELL WILL NOT REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  S 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 DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE) 41  PERMIT NUMBER OF WELL TO BE REPLACED OR COUNTY USE ONLY)  APPROP PERMIT NUMBER  PERMIT NUMBER  PERMIT NO. 10 - 18 - 16 8  PERMIT NO. 10 - 17 72 73 74 75 76 77 78 79  SPECIAL CONDITIONS WELL MULL BE VISION WELL TO SERVE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS  PURSUANT TO \$ 10-624 of the State Govt. Article of the Maryland Gode, 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.	1	0			
REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)  IN 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 DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41  SPENIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE) 41  SPENIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  APPROP PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  ONLY  PERMIT NO. 10	3	27		35 casing	10/1
REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)  ITHIS WELL WILL NOT REPLACE AN EXISTING WELL  Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  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 DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41  S2  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP. PERMIT NUMBER  PERMIT NO. 10 - 18 - 16 8 79  PERMIT NO. 10 - 18 - 16 8 7	ı		DRIVE-POINT	175 total	100 /3
REPLACEMENT ON DEPENED 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  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 DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP PERMIT NUMBER  PURSUANT to § 10-624 of the State Govt. Article of the Maryland Gode, 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  Permit Number  PERM	L	other			1.1056
THIS WELL WILL REPLACE AN EXISTING WELL  Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  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 DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP. PERMIT NUMBER  PERMIT NUMBER  PERMIT NO.  TO 71 72 73 74 75 76 77 78 79  PURSUANT to \$ 10-624 of the State Govt. Article of the Maryland Gode, 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.  SPECIAL CONDITIONS WELL  THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND STANDARY TO STANDARY THE ABOVE AND STANDARY THE	ı				1H0 / 1 / 2
THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  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 DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP PERMIT NUMBER  PERMIT NO. HO - 18 - 6168 PERMIT NO. HO - 17 72 73 74 75 76 77 78 79  SPECIAL CONDITIONS WILL MULL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS PUrsuant to \$ 10-624 of the State Govt. Article of the Maryland Gode, 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.	ı	f Int I		600	DISCLET AUSTONIVISO
ABANDONED AND SEALED  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 DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP. PERMIT NUMBER  PERMIT NUMBER  APPROP. PERMIT NUMBER  PERMIT NO. 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	ı	THIS WEEL WILL NOT HEF EACE AN EXIST		HONY	TO CONVEY HER THE TOTAL TO
S 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 DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP PERMIT NUMBER  PERMIT NO. HO - 18 - 16 8 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 BEPLACE A WELL TO BE REPLACED OR THE Maryland Gode, 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.	ı		WILL BE		- /2/7
AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP. PERMIT NUMBER  PERMIT NO. HO - 8 - 6 16 8 TO 70 71 72 73 74 75 76 77 78 79  SPECIAL CONDITIONS WILL MILL DEEPEN AN EXISTING WELL  PURSUANT to \$10-624 of the State Govt. Article of the Maryland Gode, 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.	ı		WILL BE LISED		DE STATE OF
THIS WELL WILL DEEPEN AN EXISTING WELL  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED  (IF AVAILABLE) 41  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP PERMIT NUMBER  PERMIT NO. HO - 8 - 6 16 8  PERMIT NO. HO - 8 - 6 16 8  PERMIT NO. TO 70 71 72 73 74 75 76 77 78 79  Maryland Gode, 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.  SPECIAL CONDITIONS WITH MUST BE DRILLED 10 10 10 10 10 10 10 10 10 10 10 10 10	3	AS A STANDBY-CONTACT LOCAL APPROV		Pur	suant to § 10-624 of the State Govt. Article of the
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41  Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP. PERMIT NUMBER  PERMIT NO. HO - 8 - 6 16 8  PERMIT NO. TO 71 72 73 74 75 76 77 78 79  SPECIAL CONDITIONS WITH MUST BE DRILLED 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	ı	1 = 1	511	Maj	yland Gode, personal info requested on this form
Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP. PERMIT NUMBER  PERMIT No. 10 - 18 - 16 8  PERMIT NO. 10 - 18 - 18 8  PERMIT NO. 10 - 18 8	ı	— THE TIEL OLL! EN AN EXIGNING IT		is us	sed in processing this form pursuant to COMAR
Not to be filled in by driller (MDE OR COUNTY USE ONLY)  APPROP. PERMIT NUMBER  APPROP PERMIT NO. HO - 8 - 6 16 8  PERMIT NO. HO - 70 71 72 73 74 75 76 77 78 79  SPECIAL CONDITIONS WELL MUST BE DRILLED 10 10 70 WN FROM NORTHERN EDGE OF WELL BOX	1			N 26.6	form not being processed. You have the right to
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.  SPECIAL CONDITIONS WITH MUST BE DRILLED 10. Down FROM NORTHERN EDGE OF WELLERY	L			insp	pect, amend, or correct this form. The Maryland
MPPROP. PERMIT NUMBER  B	1	Not to be filled in by driller (MDE OR C	COUNTY USE ONLY)	↑ Dep	partment of the Environment is subject to the
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.  SPECIAL CONDITIONS WELL MUST BE DRILLED 10' DOWN FROM NORTHERN EDGE OF WELL BOX		ADDROD DEDMIT MINDED LA O A	186004	Mar	yland Public Information Act. This form may be
by the public and other governmental agencies, if not protected by federal or State Law.  SPECIAL CONDITIONS WELL MUST BE DRILLED 10' DOWN FROM NORTHERN EDGE OF WELL BOX	4	BECOME PERMIT NUMBER	1 /3 12 / 1/ 1/	Illac	and the internet via MIDES website and
SPECIAL CONDITIONS WELL MUST BE DRILLED 10' DOWN FROM NORTHERN EDGE OF WELL BOX	1	ALTHOUGH HOWIDER		is su	ibject to inspection or copying, in whole or in part
SPECIAL CONDITIONS WELL MUST BE DRILLED 10' DOWN FROM NORTHERN EDGE OF WELL BOX				by t	he public and other governmental agencies, if not
NOTE: ADDROVING AUTHORITIES SHOULD HET STOADATE SHEET IS METERS.		PERMIT No. 10 70 71 7	- \ 8 - 6 1 6 8 2 73 74 75 76 77 78 79	by t	he public and other governmental agencies, if not ected by federal or State Law.

Page **1** of **1** 

Date: February 26, 2020

# FOGLE'S WELL DRILLING, LLC P.O. Box 202 Woodbine, Md 21797 443-609-4195 FIELD DATA SHEET HOWARD COUNTY WELL YIELD TEST

0168

Well Permit No. HO-18-0185

Location of Property: Reynolds Ct Ellicott City, Md

Subdivision: Kings Forest Lot#: 18

Well Driller/Tech: Fogles Andrew Houseman MSD224 Owner/Buyer: Toll Brothers

Depth of Well: 175' Casing: 35' of 6" Steel Casing Pump Depth: 155'

Distance of measuring point (M.P.) above ground: 2'

Static water level (S.W.L.) below M.P.:\_\_\_31'\_\_

High rate pumping -reservoir Drawdown

Time pump started: \_11:30\_ Pumping rate: \_10

Total time\_\_30 Mins\_\_to reach pumping water level \_60 ft. below M.P.

Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL Below M.P.	PUMPING RATE Time to fill 1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
11:30	31'	6 Seconds		10 gpm
11:45	50'	6 Seconds		10 gpm
12:00	60'	6 Seconds		10 gpm
12:15	60'	6 Seconds		10 gpm
12:30	60'	6 Seconds		10 gpm
12:45	60'	6 Seconds		10 gpm
1:00	60'	6 Seconds		10 gpm
1:15	60'	6 Seconds		10 gpm
1:30	60'	6 Seconds		10 gpm
1:45	60	6 Seconds		10 gpm
2:00	60'	6 Seconds		10 gpm
2:15	60'	6 Seconds		10 gpm
2:30	60'	6 Seconds		10 gpm
2:45	60'	6 Seconds		10 gpm
3:00	60'	6 Seconds		10 gpm



(1)

Bureau of Environmental Health 8930 Stanford Blvd | Columbia, MD 21045 410.313.2640 - Voice/Relay 410.313.2648 - Fax 1.856.313.6300 - Toll Free

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

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

work is to be covered until approved by the Health Department. All installations must comply with the National Standard
Plumbing Code (NCPC, Code OCPC, Code OCPC) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a
Fillmains Links (1859), and COMAR 26.94.94 (VID Well Construction Regulations). Submission of a
complete form is required prior to Use and Occupancy approval.
Galactical Riman at sale Treatmentille
Company Warse: FOALES ( WEI) PUMP & Unity 1 Telephone # 410 795 1835
Address: HO BOX 63
Woodhine, mp 7179
Must circle one: Licensed Phumber / Licensed Well Driller Diseased Well Pump Installer
License # and pame of individual responsible for the field installation:
*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. Unficensed
individuals may be reported to the appropriate licensing agency.
minyathars and appropriate increasing agency.
Name of Property Owner: TOU Brotters Telephone #
Name of Property Owner: TOT BYOTTE'S Telephone # Subdivision: KOASKY WOOS Lot #: 18 Well Tag #: HO - 18 - 0168
Subdivision: KINASKU 14,000S Lot #: 18 Well Tag #: HO - 18 - 0 168 (5)
Site Address: 10507, 200000 Jane
FILLICATE CITY MODELING?
- Ellicott City, marking 2
Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: GrandfoS Make: Climore + Two piece watertight cap: YC
Model # 1550507-80 Model# 1/9 . Screened, vented well cap: 1/2
Pump Capacity 15 CPM Depth: 36 min) Cap secured to casing: 1/5
Well Yield: Conduit min 18" B.G.: US Conduit min 18" B.G.:
Depth of well encountered at time of pump installation: 15 (feet) Conduit secured to well cap: 105
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Minst circle one: Torque aucestors / Cable guards / Other acceptable method used
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing W/>
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing WY-
Piping to house House Connection
Piping to house Type: 1" Office   PVC sleeve to undisturbed soil at wall penetration: VC
Piping to house  Type: 1'' 001 010 C  PSU 7 (V) 160 psi min)  Figure Connection  FVC sleeve to undisturbed soil at wall penetration:  Length of sleeve(5' unique property foundation):  Length of sleeve(5' unique property foundation):
Piping to house  Type: 1'' 001 010 C  PSU 7 (V) 160 psi min)  Figure Connection  FVC sleeve to undisturbed soil at wall penetration:  Length of sleeve(5' unique property foundation):  Length of sleeve(5' unique property foundation):
Pining to house Type: 1" 0014 pin C PSI: 700 (160 pki min)  Length of sleeve (5' minimum from foundation): 127
Pining to house Type: 1" 0014 pin C PSI: 200(160 pki min) Depth of supply line: 30 (36" min)  House Connection PVC sleeve to undisturbed soil at wall penetration: Length of sleeve(5" minimum from foundation): 10 f Sleeve scaled properly: 15
Pining to house  Type: 1" 001 pt C  PSI: 200 (160 psi min)  Depth of supply line: 30 (36" min)  The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution
Pining to house  Type: 1'' 001 V p10 C  PSI: 200 (160 per min)  Depth of supply line: 30' (36" min)  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
Pining to house  Type: 1" 001 pt C  PSI: 200 (160 psi min)  Depth of supply line: 30 (36" min)  The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution
Pining to house  Type: 1'' 001 V p10 C  PSI: 200 (160 per min)  Depth of supply line: 30' (36" min)  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
Piping to house Type: 1" 001 210 PVC sleeve to undisturbed soil at wall penetration: PSI: 700 (160 psi min) Depth of supply line: 300 (36" min)  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.
Piping to house Type: 1" 001 210 PVC sleeve to undisturbed soil at wall penetration: PSI: 700 (160 psi min) Depth of supply line: 300 (36" min)  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.
Pining to house Type: 1'' 001 0 per min)  PSI: 200 (160 per min)  Depth of supply line: 30' (36" min)  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.  Silve Connection  FVC sleeve to undisturbed soil at wall penetration:  Length of sleeve(5' minimum from foundation): 107  Sleeve scaled properly: 105  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
Piping to house Type: 1" 001 210 PVC sleeve to undisturbed soil at wall penetration: PSI: 700 (160 psi min) Depth of supply line: 300 (36" min)  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.
Pining to house Type: 1'' 001 0 per min)  PSI: 200 (160 per min)  Depth of supply line: 30' (36" min)  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.  Silve Connection  FVC sleeve to undisturbed soil at wall penetration:  Length of sleeve(5' minimum from foundation): 107  Sleeve scaled properly: 105  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
Piping to house Type: 1'' 00 V 010 C PSI: 7(1)(160 per min) Depth of supply line: 3(0'' (36" min)) 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
Pining to house Type: 1'' 001 10 C PSI: 200 (160 per min) Depth of supply line: 30' (36" min)  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  Signature of company representative responsible for installation  The Health Department Use Only – Not to be completed by Installation
Pining to house Type: 1'' 001 0 10 C PSI: 200(160 pki min) Depth of supply line: 300 (36" min)  The water supply line is required to be af 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  For Health Department Use Only - Not to be completed by Logicalian  Date Insp. Representative and supply supply the seption of the property of the second state of the sec
Pining to house Type: 1" 00 1 0 10 C PSI: 200(160 phi min) Depin of supply line: 300 (36" min)  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  Length of sleeve(5" minimum from foundation): 107  Sleeve sealed properly: 105  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 Insp. Requested 100 22 Date Insp. Approved: 5 10 22 Inspector: Inspector: Prices adapter watertight & water supply line at least 36" below grade
Pining to house Type: 1'' 10 10 10 10 10 10 10 10 10 10 10 10 10
Pining to house Type: 1'' 001 pin C PSI: 200160 psi min Depin of supply line: 300 (36" min)  The water supply line is required to be at least ten feet from the septic tank, pump chember, 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  Ent Health Department Use Only—Not to be completed by Installation  This is adopted water tight & water supply line at least 36" below grade  Two piece cap installed and attached to casing securely  Else, conduit extends at least 18" below grade/dattached to cap properly
Pining to house Type: 1 11 00 10 10 10 10 10 10 10 10 10 10 1
Piving to house Type: 1'' O'N DICC PSI: 700(160 psi min) Depth of supply line: 300' (36" min)  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  Length of sleeve(5' minimum from foundation):  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  Length of sleeve(5' minimum from foundation):  Signature of company representative) responsible for installation  Length of sleeve(5' minimum from foundation):  Signature of company required to be at least 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.  For Health Department Use Only — Not to be completed by Installation  Prices adapted 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  Sinty rope not outside of well cap/casing  Correct well tag attached purporly and casing 8" above finished grade
Pining to house Type: 1 11 00 10 10 10 10 10 10 10 10 10 10 1
Pining in house Type: 1" 100 10 10 C PSI: 700 160 pci min) Depth of supply line: 3(0) (36" min)  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  For Health Department Use Only—Not to be complated by Lostellar Inspection Data:  Prices adopter watering a 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/trasing Cornect well lag attached properly and casing 8" above finished grade  Weter supply line sleeved adequately at house connection
Piving to house Type: 1'' O'N DICC PSI: 700(160 psi min) Depth of supply line: 300' (36" min)  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  Length of sleeve(5' minimum from foundation):  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  Length of sleeve(5' minimum from foundation):  Signature of company representative) responsible for installation  Length of sleeve(5' minimum from foundation):  Signature of company required to be at least 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.  For Health Department Use Only — Not to be completed by Installation  Prices adapted 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  Sinty rope not outside of well cap/casing  Correct well tag attached purporly and casing 8" above finished grade
Pining to house Type: 1' 001 010 C PSI: 200(160 psi min) Depth of supply line: 3(0' (36" min)  Length of sleeve(5" minimum from foundation): Length of sleeve(5" minimum from foundation): Length of sleeve(5" minimum from foundation):  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 Insp. Requested  For Health Department Use Only - Not to be completed by Installation  Prices 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
Pining in house Type: 1" 100 10 10 C PSI: 700 160 pci min) Depth of supply line: 3(0) (36" min)  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  For Health Department Use Only—Not to be complated by Lostellar Inspection Data:  Prices adopter watering a 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/trasing Cornect well lag attached properly and casing 8" above finished grade  Weter supply line sleeved adequately at house connection
Pining to house Type: 1' 001 010 C PSI: 200(160 psi min) Depth of supply line: 3(0' (36" min)  Length of sleeve(5" minimum from foundation): Length of sleeve(5" minimum from foundation): Length of sleeve(5" minimum from foundation):  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 Insp. Requested  For Health Department Use Only - Not to be completed by Installation  Prices 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
Pining to house Type: 1' 001 010 C PSI: 200(160 psi min) Depth of supply line: 3(0' (36" min)  Length of sleeve(5" minimum from foundation): Length of sleeve(5" minimum from foundation): Length of sleeve(5" minimum from foundation):  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 Insp. Requested  For Health Department Use Only - Not to be completed by Installation  Prices 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



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

#### INTERIM CERTIFICATE OF POTABILITY

Expiration Date - MARCH 12, 2023

September 12, 2022

Homeowner 10512 Pudding Lane Ellicott City, MD 21042

RE:

King's Forest, Lot 18 10512 Pudding Lane

Building Permit: B21004498 Well Permit: HO-18-0168

#### Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on 8/30/2022. Final approval of the well line connection to the dwelling was granted on 5/10/2022. The well construction was completed on 2/26/2020. Water samples were collected on 8/15/2022, 8/26/2022.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking.

Gross Alpha and Beta samples were also collected on 2/26/2020. Results showed a Gross Alpha level of  $5.6 \pm 1.6$  pCi/L and Gross Beta level of  $6.3 \pm 1.8$  pCi/L. The Gross Alpha was below the maximum contaminant level (MCL) of 15 pCi/L and the Gross Beta was below the target level of 50pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year). At the time of testing and with respect to these parameters, the well water is safe for all uses.

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-18-0168. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire six months from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the Annotated Code of Maryland, Environment Article, 9-1311, subject to a fine of up to \$500 or imprisonment not to exceed three months.



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

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a certified water quality laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website: <a href="http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf">http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf</a>

In closing, please refer to our "Homeowner Fact Sheet" for understanding your onsite sewage disposal system. You will also find a link to Maryland Department of the Environments website which elaborates in further detail operation and maintenance of your Septic System.

Approving Authority,

Kevin M Wolf, L.E.H.S., REHS/R.S., Supervisor

Groundwater Management Section

Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits

Community Hygiene Program

File

Send Report To: Best Nixon

Health

Howard County Health Papartment

au of Environ

8950 Stanford Bly

Col

State of Maryland DHMH – Laboratories Administration

Division of Environmental Sciences

#### TRACE METALS LABORATORY

1770 Ashland Avenue Baltimore, Maryland 21205

**E20002914001** Received: 02/27/2020

Metals

HOST0168NA

LABORATORY ANALYSIS REQUEST	
	Do not write above this line
Please Print $\mathcal{D}$	
Sample ID No: HOSTO1868 MAN Site Name: Prodeing Ln King's Forest Lot 18 Cou	inty: Howard
Sample Source: Public Ln King's Forest 1st 18 Collector: Street Town or City	Sugn Thomas Name
Date Collected: 2/26/2020 Time Collected: 1:41 a.m./p.m. Phone #:4	10-313-6287
Sample Preserved By:     Field   ESRL   WMRL	☐ Central Lab
Data Category   Community   Stream   Distribution (Tr	fater) □ Liquid □ Solid
Code □□ □ Non-Community □ Sediment □ Other □ Private	
Specify Program:   SDWA   NPDES   CWA   RCRA   Consumer Production:   Total Metals   Total Metals   Total Metals   Total Metals	
Remarks: Collected at middle of yield	(field preparation required)
√ Element Lab Use ✓ Element Lab Use ✓ Elem	nent Lab Use

√.	Element	Lab Use	d	Sa Element	Lab Use	√	Element	Lab Use
	Antimony (Sb)			Aluminum (Al)		1	Uranium (U)	
	Arsenic (As)	) /1	1	Calcium (Ca)	UNK		Vanadium (V)	Tt
	Barium (Ba)			Cobalt (Co)			Zinc (Zn)	
	Beryllium (Be)	1 al	3	Copper (Cu)	80	-	tine	)
	Cadmium (Cd)	COL	/	Iron (Fe)	7		1	
2.01	Chromium (Cr)	) - 1 .	3- 1	Lead (Pb)				
	Mercury (Hg)		UV	Magnesium (Mg)				and the same and
	Nickel (Ni)		de .	Manganese (Mn)			RECEI	VED
	Selenium (Se)	i i sasije i i		Molybdenum (Mo)	M		N. C.	
1	Sodium (Na)	SHS		Potassium (K)			MAR 16	2020
	Thallium (Tl)			Silver (Ag)			HOWARD COUNTY	HEALTH DE

**Lab Supervisor:**•Phone: (443) 681 – 4596

•Fax: (443) 681 - 4507

**Date Reported:** 

DHMH 4432 (05/17)



# State of Maryland Department of Health Laboratories Administration Division of Environmental Sciences TRACE METALS LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director



### Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH 8930 STANFORD BLVD COLUMBIA. MD 21045

COLUMBIA, MD 21045

Date Received: 02/27/2020

Submitted By: Thomas

Field ID: HOST0168NA Lab No.: E20002914001

Method Ele

Element

Lab Project No: E20002914 Date Coll.: 02/26/2020

Result

Units

Date Analyzed

EPA 200.7

Sodium

6.19

ppm

03/10/2020

RECEIVED

MAR 16 2020

HOWARD COUNTY HEALTH DEPT. COMMUNITY HYGIENE PROGRAM

Comments:

Approved by:

Wurnisha - Cuescen-

Approval date: 03/12/2020

\*\*The following methods are included in our A2LA Scope of Accreditation: EPA 200.7, EPA 200.8, EPA 245.1. Samples are tested as received.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6944 and arrange for return or destruction.

Telephone: (443) 681 - 3853

Fax: (443) 681-4507

S:\EnviroFinal-Metals.rpt

## Send Report To: Bet

Howard County Health Department Bureau of Environmental Health 877 Stanford Blvd.

**Tests Requested** 

MDH-90-A 07/17

State of Maryland MDH-Laboratories Administration Division of Environmental Sciences INORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue Baltimore, Maryland 21205

# **E20002918001** Received: 02/27/2020

Reported

Cora	mbia	, Maryland 21045 WAT	TER ANAL	YSIS	Inorganic		0168CLT
S A M P L E	Addre Collec CHEC	ess Puddie In King's Forest  ted: Date 2/26/20 Time 1:41 pm  2K (one per box)	Collector of Phone  Source (raw Distribution of MCL	Susan Thomps, 4	/0-313-6287	County Code  Ita Category de  Submitter Code  Fede Proje	13 4F
F I E L D	pН	Sampling Station  Chlorine: Free  es to Lab/Remarks: Collected at Mydd	Total &	Preservation: Iced Speci	Acid Typ Acid fic uctance		
	ECK STS	TESTS	Error Code	R	RESULTS	5	
		Alkalinity (Total)	Couc				
(	1	Ammonia - N					
$\frac{1}{\nu}$		Chloride					
		Conductance*, Spec.					
V		Dissolved Solids (Total)			N		
		Hardness					E 18
		Fluoride					
		Nitrite, N	7.2				
		Nitrate + Nitrite, N			il a	= 42, 5	7 26
		Sulfate					
*		Total Solids		858		Diana Ryo	C1 1 100 1000
		Turbidity*					
		Other:		20		2	
		A				1	
			7				
	* 1					THE PART OF THE PA	
		The state of the s					
					- W		
		W 8 00 5050 L					
		sults reported in Units, all others in milligrams per ber of	liter (ppm)	*Sa Dat	mples are tested	as receive	d.

Section Chief\_

SUBMITTER'S COPY



# State of Maryland Department of Health Laboratories Administration Division of Environmental Sciences INORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director



HOWARD CO ENVIRONMENTAL HLTH 8930 STANFORD BLVD COLUMBIA, MD 21045 Certificate of Analysis

Lab Project NoE20002918 Date Coll. 02/26/2020 Date Received: 02/27/2020 Submitted By: S. Thomas

Field ID: HOST0168CLTDS Lab No.: E20002918001

 Analyte
 Method
 Result
 Units
 Date Analyzed

 Chloride
 SM 4500-CI E
 <10</td>
 mg/L
 03/02/2020

 Total Dissolved Solids
 SM 2540C
 78
 mg/L
 02/28/2020

#### Comments:

Approved by:

Shahler andi

Approval date: 03/03/2020

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6190 and arrange for return or destruction.

Telephone: (443) 681 - 3855

Fax: (443) 681 - 4507

S:\EnviroFinal-InorganicsA.rpt

<sup>\*</sup>The following methods are included in our A2LA Scope of Accreditation: EPA150.1, EPA 353.2, EPA 375.2, SM4500F C, SM 4500-CN G & QCM-CN, QCM-CN. Samples are tested as received.



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

March 23, 2020

Toll Brothers 7164 Columbia Gateway Drive Columbia, Maryland 21045

> RE: Kings Forest Lot 18 Pudding Lane Well Tag: HO – 18 – 0168

To Who it May Concern:

A sample was collected during a yield test on February 26, 2020 and submitted to the Maryland Department of Health Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from this screening revealed a Gross Alpha of  $5.6 \pm 1.6$  picocuries/liter (pCi/L), while the Gross Beta level was  $6.3 \pm 1.8$  pCi/L. The Gross Alpha result was below its maximum contaminant level (MCL) of 15 pCi/L, while the Gross Beta level was below its targeted standard of 50 pCi/L (roughly equivalent to the annual dose rate of 4 millirems/year).

At the time of testing and with respect to these parameters, the well water supply **is within** EPA regulatory standards. Additional testing **for these parameters** will not be required to secure the future Use & Occupancy. Please **note** that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be needed to help secure Use & Occupancy.

A copy of the test results is enclosed for your information. Please call this office at 410-313-1773 if you have any further questions.

Sincerely,

Bert Nixon, Director

Bureau of Environmental Health

Enclosure

√ cc: Property file

Theresa Miller, Fogles

SEND REPORT TO: Beat Nixon Howard County Health Department Bureau of Environmental Health 8900 Stanford Blvd.

State of Maryland DHMH - Laboratories Administration Division of Environmental Sciences RADIATION LABORATORY

1770 Ashland Avenue Baltimore, Maryland 21205

4 43

#### Columbia, Maryland 21045 LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name:	C 14	King	Freeh Lit	18 Cour	nty:		
Sample Source:	J 	< Fr	Lot 18	Loca		18-016	0
Radon-222 Bottle A	iosto	LOVEA	Radon	-222 Field Blank		ell no., lab sink, sa A	mple tap, etc.)
	1	105 14					-
Bottle B							
County 3			Plant N	lo.			
CHECK (one per Box)							
Type Drinking Water Landfill Stream Other	1.300.000.000			Point of Collection ree (Raw) ribution (treated)	0	Testin Emergency Routine Recheck Special	
Submitters Code:	I		I	Federal Project:			
Collector:	TI			Telephone No.:	410-31	-428	7
Date Collected:	0/20	O, N		Γime Collected:	1	_a.m	1.2// p.m.
Field pH:			I	Field Chlorine:	- 13 O A		
Nitric Acid Preserved:	Yes	No		ced: Ye	s No	1/	
Nuite Acid Freserved.	1 05	110		ccu.	3 110 _		
Remarks:		٠	H	<u> </u>		-	
☑ TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
Gross Alpha	4000	1820	EPA 900, R		2/29/2000	RH	3/2/2020
Gross Beta	4100	1820		6.3 ± 1.8	2/29/2020	RH	3212020
Radium-226	4020			27			
Radium-228 Total Uranium	4030						
Radon-222 (Bottle A)	4004						_
Radon-222 (Bottle B)	4004						
Radon Field Blank A	4004						
Radon Field Blank B	4004						
☐ Tritium					9		
					,		
						V.*	
Date Received:	77:0	89	Received By:	4	1		
Data Release Signature:		wie ist	. Turk	6	Date:	-03/0	2/20
Lah	Use Only		Y	es No	N/A		
	OSC OTHY		1	110	14/PA		
Sample Intact upon arrival?							

•Tel. No.: (443) 681-3766 •Fax No.: (443) 681-4507

Received within holding time?

# Howard County Health Department Bureau of Environmental Health 8930 Stanford Blvd. Columbia, Maryland 21045

DHMH - Laboratories Administration
Division of Environmental Sciences

RADIATION LABORATORY 1770 Ashland Avenue Baltimore, Maryland 21205

Lab No.	
	497.0
1	1 60

#### LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: Pudding	Lano	, King's	Forest	LOTS 2	2 + 18 Cou	nty:	Mir	
Sample Source:							Blank	
Podon 222 Pouls A		i i		Dadon 1	22 Field Blank		Well no., lab sink, sa	
Radon-222 Bottle A				Kadon-2	22 Field Blank		le A HOST F	
Bottle B						Bott	le B	
County 3		9		Plant No				
CHECK (one per Box)								
Type  Drinking Water  Landfill  Stream  Other			0	Source	Point of Collection e (Raw) pution (treated)		Emergency Routine Recheck Special	
Submitters Code:	F	]		Fe	deral Project:			
Collector:	The	nds		Те	lephone No.:	410 - 31	13-6287	*
Date Collected: 2/26	120			Ti	me Collected:	encode and the second second	a.m.	
Field pH: 5.5	1-0			Fi	eld Chlorine:	Nec		
Nitric Acid Preserved:	Yes	No		Ice	ed: Yo			
Remarks:								
™ TEST	EPA Code	Lab No.	Metho	od No.	Results (pCi/L)	Date Analyze	d Analyst	Date Reported
Gross Alpha	4000	1819	1-1-1-16	with the	12.0	2/29/200	RH	312/2020
Gross Beta	4100	1889	1+3)0		111 0	1 1		
4 Oross Deta	7100	1.01	1 1 1	10.4 1 2	L4.0			1 1
☐ Radium-226	4020	1.0.1		KA, t	24.0	39		
		101		14, 12	24.0			
□ Radium-226 □ Radium-228 □ Total Uranium	4020 4030 4006	1321		101 (3	4,0			
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A)	4020 4030	13.1		10. 10	БД 9 U			
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon-222 (Bottle B)	4020 4030 4006 4004 4004	1321		13 1 3	14, U			
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon Field Blank A	4020 4030 4006 4004 4004 4004	133.1		(1.3, 1.3)	L4, U			
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon-222 (Bottle B) □ Radon Field Blank A □ Radon Field Blank B	4020 4030 4006 4004 4004	1331		(4, 6)	14, U		3.5	
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon Field Blank A	4020 4030 4006 4004 4004 4004	1321		(4, 6)	БД 9 U		*1	
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon-222 (Bottle B) □ Radon Field Blank A □ Radon Field Blank B	4020 4030 4006 4004 4004 4004	133.1			<i>ъ</i> 4, 0		.5	
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon Field Blank A □ Radon Field Blank B □ Tritium	4020 4030 4006 4004 4004 4004	133.1			БД 9 U		**	
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon-222 (Bottle B) □ Radon Field Blank A □ Radon Field Blank B □ Tritium □	4020 4030 4006 4004 4004 4004 4004	àno		ved By:	4,0	n B		
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon-222 (Bottle B) □ Radon Field Blank A □ Radon Field Blank B □ Tritium □	4020 4030 4006 4004 4004 4004 4004	àn o		ved By:		Date:	_ 03/0:	2/20
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon Field Blank A □ Radon Field Blank B □ Tritium □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	4020 4030 4006 4004 4004 4004 7 2	an o	Receiv	ved By:		Date:		2/20
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon Field Blank A □ Radon Field Blank B □ Tritium □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	4020 4030 4006 4004 4004 4004 4004	an o	Receiv	ved By:			_ 03/0:	2/20
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon Field Blank A □ Radon Field Blank B □ Tritium □ □ □ Date Received: 2 7 Data Release Signature:  Lab Sample Intact upon arrival?	4020 4030 4006 4004 4004 4004 7 2	an o	Receiv	ved By:		Date:	03/0	2/20
□ Radium-226 □ Radium-228 □ Total Uranium □ Radon-222 (Bottle A) □ Radon Field Blank A □ Radon Field Blank B □ Tritium □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	4020 4030 4006 4004 4004 4004 7 2	an o	Receiv	ved By:		Date:	03/0:	2/20

•Tel. No.: (443) 681-3766 •Fax No.: (443) 681-4507



#### Bureau of Environmental Health

8930 Stanford Blvd, Columbia, MD 21045 Main: 410-313-2640 | Fax: 410-313-2648 TDD 410-313-2323 | Toll Free 1-866-313-6300 www.hchealth.org

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

#### Sodium, Chloride and Total Dissolved Solids water sampling results

February 17, 2021

Toll Brothers 7164 Columbia Gateway Dr, Suite 230 Columbia, MD 21046

Re:

Kings Forest Lot 18

Pudding Ln

Well Permit: HO-18-0168

Dear Toll Brothers.

The Health Department received results from the testing for sodium, chloride, and total dissolved solids (TDS) from your well water. These samples were collected directly from the raw well water when your well was drilled.

**Sodium from your well measured 6.19 mg/L**. There is no maximum contaminant level for sodium, however elevated sodium levels in drinking water could affect individuals on low-salt diets. If anyone in your household in on a low-salt diet, you may want to discuss these results with your physician.

Chloride and TDS are both considered secondary contaminants, meaning high concentrations can affect taste, color, odor, or corrosive properties of water but present no risk to health. The secondary maximum contaminant level for chloride is 250 mg/L; chloride from you well measured <10 mg/L. The secondary maximum contaminant level for TDS is 500 mg/L; TDS from your well measured 78 mg/L.

Feel free contact me at the number or email below with any questions regarding the results of water sampling.

Respectfully,

Susan Thomas

Environmental Health Specialist Howard County Health Department Well and Septic Program

410-313-6287

sathomas@howardcountymd.gov

Cc: File

#### FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

#### REPORT OF ANALYSIS

Laboratory ID #:

154130

Account #:

Reference:

Kingsley Woods Lot 18

1933 Client:

Fogle's Well Pump & Treatment

Location:

10512 Pudding Lane

Requested By:

Dave Fogle

Ellicott City, MD 21042

Well Water

Date/ Time Collected: 8/26/2022

Source:

1245

Site:

Pressure Tank

Date/Time Rec'd: Chlorine ppm:

8/26/2022

1504 Total: ND

Treatment: pH:

None 6.2

Collected By:

Free: ND J. Evans

0309JE

Well #:

HO-18-0168

PARAMETERS	RESULTS	UNITS RE	FERENC	E METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	8/27/2022 / 1000 / TSD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	8/27/2022 / 1000 / TSD
Nitrate.	< 0.40	mg/L	10	EPA 300.0	8/26/2022 / 1928 / TSD
Turbidity	1.22	NTU	<10	SM2130B	8/26/2022 / 1610 / TSD
Sand	ND	mg/L	5	Visual/Gravimetric	8/26/2022 / 1535 / TSD

#### NOTES:

- mg/L = milligrams per liter (also, parts per million) 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 4 sampling.
- Sample collected by client, analyzed as received 5
- ND = None Detected; N/A: Not Available 6
- Visual well check: Sealed, vented cap 7
- pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test:

Use & Occupancy

Building Permit #:

B21004498

Date Reported:

8/29/2022

#### FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014

### REPORT OF ANALYSIS

Laboratory ID #:

153875

Kingsley Woods Lot 18

Ellicott City, MD 21042

Account #: Client:

1933

Reference:

Fogle's Well Pump & Treatment

Location:

10512 Pudding Lane

Requested By: Source:

Dave Fogle Well Water

Date/ Time Collected: 8/15/2022

0900

Site:

Pressure Tank

Date/Time Rec'd:

8/15/2022

1012

Treatment:

None

Chlorine ppm:

Free: ND

Total: ND

pH:

5.6

Collected By:

J. Evans

0309JE

Well #:

HO-18-0168

PARAMETERS	RESULTS	UNITS RE	FERENC	E METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	34.4	MPN/ 100 ml	<1.0	SM20 9223B	8/16/2022 / 0830 / TSD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	8/16/2022 / 0830 / TSD
Nitrate.	< 0.40	mg/L	10	EPA 300.0	8/15/2022 / 1658 / TSD
Turbidity	19.0	NTU	<10	SM2130B	8/15/2022 / 1430 / TSD
Iron	1.67	mg/L	0.3*	Hach 8146	8/15/2022 / 1445 / TSD
Sand	ND	mg/L	5	Visual/Gravimetric	8/15/2022 / 1430 / TSD

#### NOTES:

- \*SMCL = Secondary Maximum Contaminant Level 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
- NTU = Nephelometric Turbidity Units 4
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of 5 sampling.
- Sample collected by client, analyzed as received 6
- ND = None Detected; N/A: Not Available 7
- 8 Visual well check: Sealed, vented cap
- pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test:

Use & Occupancy

Building Permit #:

21004484

Date Reported:

8/16/2022



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

#### **MEMORANDUM**

TO:

Fogle's Well Drilling 580 Obrecht Road

Sykesville, MD 21784

FROM:

Susan Thomas

Environmental Health Specialist Howard County Health Department

Well & Septic Program

RE:

Kings Forest Subdivision - Well Permits Lots 1-36 and Parcel D

**Special Conditions for wells** 

DATE:

December 26th, 2019

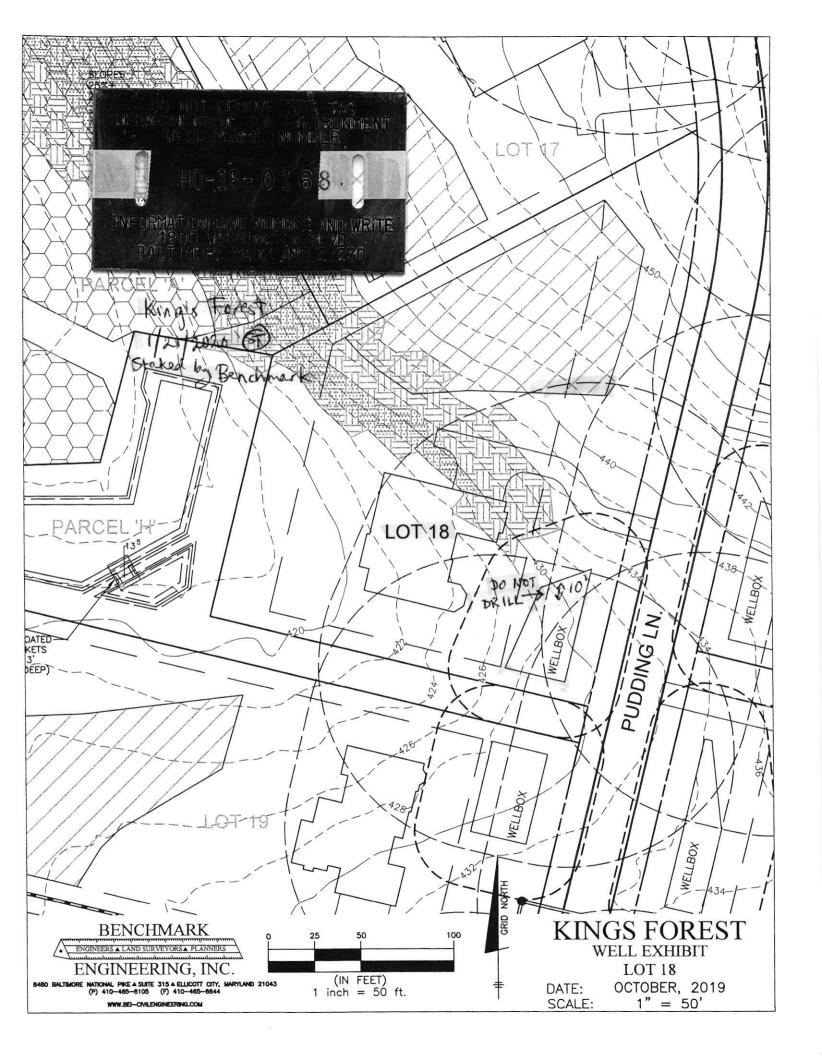
The following comments apply to the above referenced Well Permit Applications. Please read through and complete as needed.

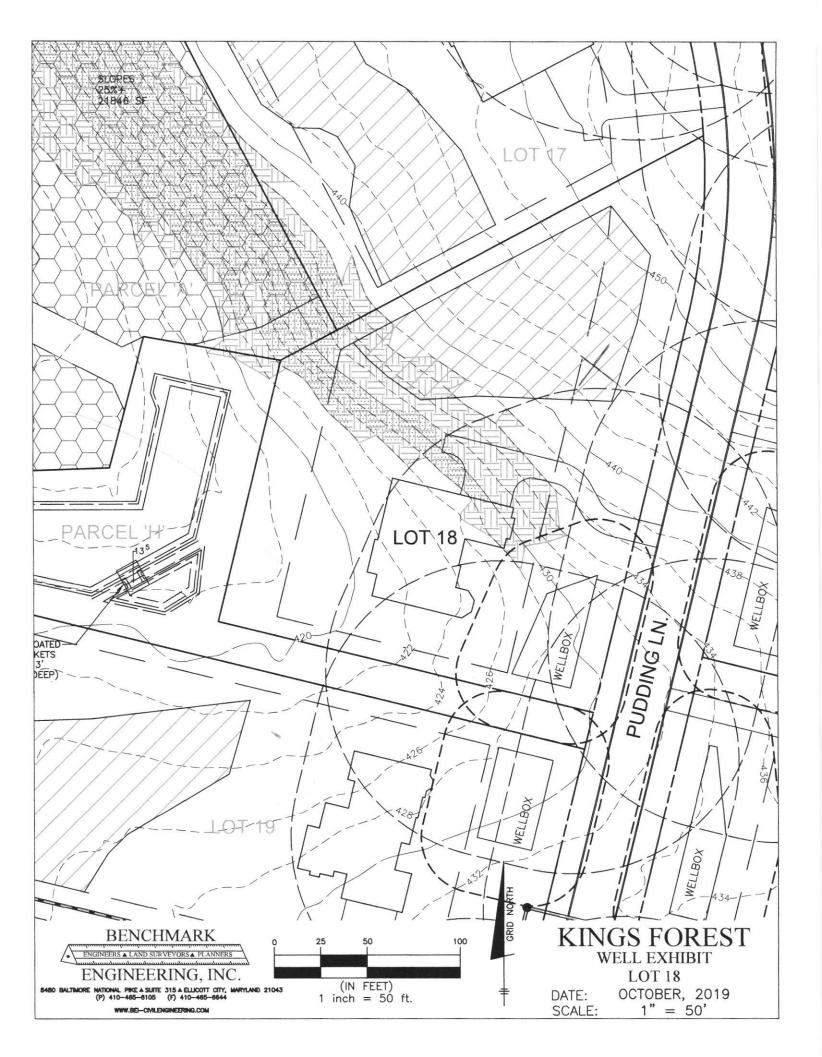
- A. The well box for Lot 18 encroaches within 100 ft of the proposed septic disposal area. The well for Lot 18 must be drilled 10 feet down from the northern edge of the well box, so as to meet the setbacks from the SDA.
- В.
- C. Lots 17, 26, 27, and 33-35 will require 50' of Steel Casing or 10' into competent bedrock, whichever is deeper.
  - 10. A waiver for the location of the septic systems and wells, as shown on [Revised Percolation Certification Signed 11/12/2019] has been approved by MDE. As a condition of the approved [sic] of this waiver the initial and all replacement wells on lots 17, 26, 27, and 33 35 will require Steel Casings to be installed to 50' or 10' into competent bedrock, whichever is deeper.
- D. All lots in the Kings Forest Subdivision are within the Baltimore Gneiss Formation and will require Water Quality Tests for Radium to be collected at the time of the Yield Test.
- E. If the wells on Lot 13 or Lot 28 are within 10' of the driveway the well must be surrounded by bollards.

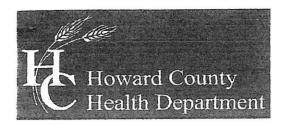


Maura J. Rossman, M.D., Health Officer

F. Lots 2, 8, 9, 13, 18, 21, 24, 26, 27, 28, 33, 34 and 35 will require samples for Sodium, Chloride and TDS to be collected at the time of the Yield Test.







#### 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

Facebook: 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:

K	Subdivision/Property Name  H18 thru 35  Pudin Lane  Road Name
×	The well site has been staked by Book Control (professional land surveyor or company employing professional land surveyors) on Challed and does not require a site inspection.
а	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.

	HOWARD COUNTY HEALTH DEPARTMENT 66429
Received From	7/18/19 US PHONE # 401-1/19
☐ CASH	For JCC/Pariets/15 Predaction
NO.	200 / auxalid - old haut ad Dollars
\$400	Received By Received By