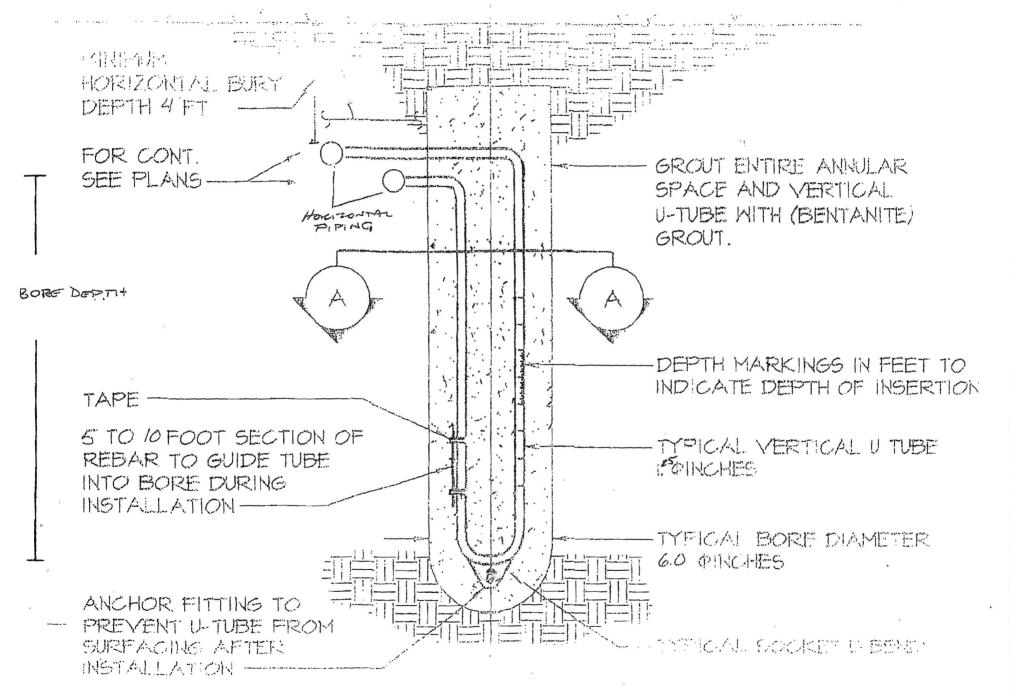
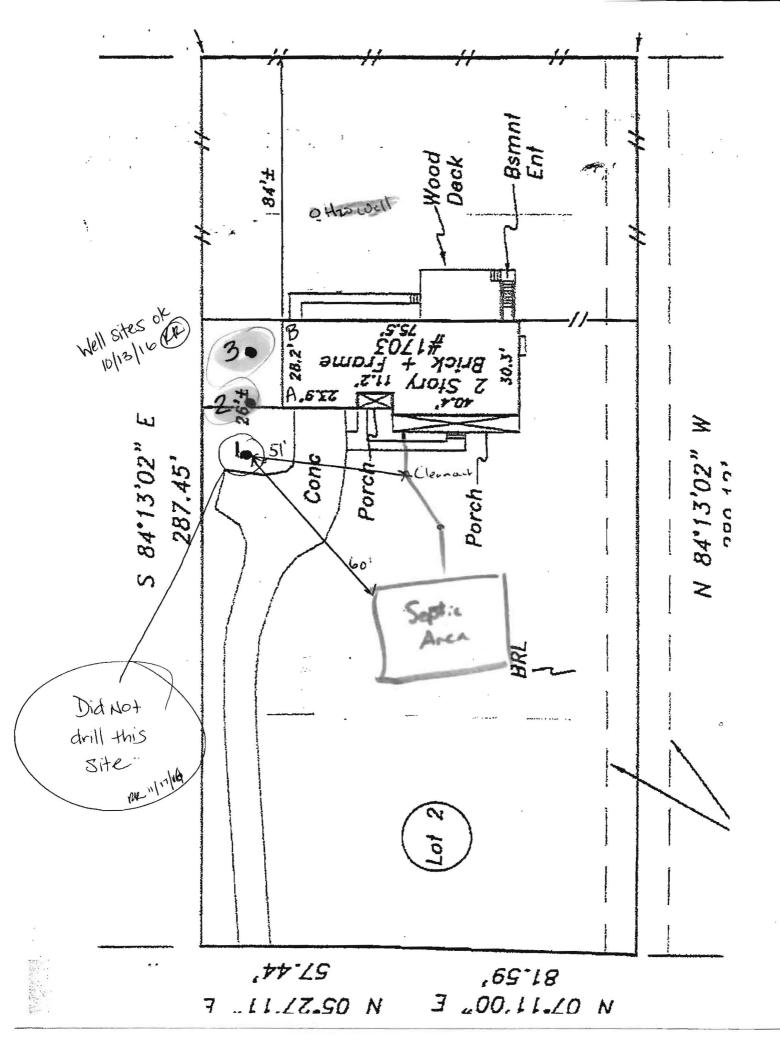


SEQUENCE NO. STATE OF MARYLAND THIS REPORT MUST BE SUBMITTED WITHIN (MDE USE ONLY) 45 DAYS AFTER WELL IS COMPLETED. WELL COMPLETION REPORT COUNTY **FILL IN THIS FORM COMPLETELY** (THIS NUMBER IS TO BE PUNCHED NUMBER PLEASE TYPE IN COLS. 3-6 ON ALL CARDS) ST/CO USE ONLY DATE WELL COMPLETED Del Depth of Well FROM "PERMIT TO DRILL WELL" DATE Received 13 (TO NEAREST FOOT) 30 31 32 33 34 35 36 37 29 OWNER WELL SITE ADDRESS TOWN SUBDIVISION SECTION LOT **GROUTING RECORD** WELL LOG)LLOG 3 WELL HAS BEEN GROUTED (Circle Appropriate Box) Not required for driven wells 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) check if water bearing BENTONITE CLAY CEMENT CM FEET DESCRIPTION (Use additional sheets if needed) FROM то NO. OF BAGS PUMPING RATE (gal. per min.) NO. OF POUNDS 06 GALLONS OF WATER METHOD USED TO DEPTH OF GROUT SEAL (to nearest foot) MEASURE PUMPING RATE L 58 ft. 30 52 ft. to _______ WATER LEVEL (distance from land surface) (enter 0 if from surface) Grey fock **BEFORE PUMPING** CASING RECORD casing types CO 320 insert WHEN PUMPING appropriate code OIT TYPE OF PUMP USED (for test) below OTHER A turbine Nominal diameter Total depth MĂIN top (main) casing of main casing CASING other (nearest inch)! (nearest foot) TYPE centrifugal (describe rotary below) 60 61 63 64 70 J jet S submersible OTHER CASING (if used) depth (feet) diameter ingh from to **PUMP INSTALLED** DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. SCREEN RECORD screen type TYPE OF PUMP INSTALLED or open hole PLACE (A,C,J,P,R,S,T,O) 29 ST BR HO IN BOX 29. insert STEEL CAPACITY appropriate HOLE BRONZE GALLONS PER MINUTE code OIT 35 (to nearest gallon) PUMP HORSE FOWER 41 2 DEPTH (nearest ft.) PUMP COLUMN LENGTH NUMBER OF UNSUCCESSFUL WELLS: (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box WELL HYDROFRACTURED 9 11 15 17 21 Y N and enter casing height) + above CIRCLE APPROPRIATE LETTER LAND SURFACE 24 26 36 30 32 23 A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED (nearest) below foot) **ELECTRIC LOG OBTAINED** 50 51 38 39 41 45 47 TEST WELL CONVERTED TO PRODUCTION LATITUDE 3 9 . 324 15 SLOT SIZE 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. LONGITUDE 76.97105 DIAMETER (NEAREST OF SCHEEN INCH) (DEFAULT COORD, WGS 84) 60 from to Pursuant to \$10-624 of the State Govt. Article of the Maryand Code personal info. requested on DRILLERS LIC NO. I this form is used in processing this form pursuant GRAVEL PACK L to COMAR 26.04.04. Failure to provide the info. WAS FLOWING WELL may result in this form not below processed. You have the right to inspect, amend, or correct this INSERT F IN BOX 68 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made T (E.R.O.S.) WO available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the pulic and other governmental SITE SUPERVISOR (sign. of driller or journeyman 74 75 76 TELESCOPE agencies, if not protected by federal or state law. responsible for sitework if different from permittee) INDICATOR OTHER DATA



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.



FILE INQUIRY NOTES

RESULTS OF REVIEW FOR FILE 10/14/16 - Site visit driller onsite. Apprentice Driller Pete Lankenow, stated that drilling began resterday 10/13/16 at Site#3, he set 30' of casing. Drilling resumed today at well site #3 and they are at 300' (lots of water-20 gal/min). Driller stated that he'd finis this well today, drop the loop 5 grout. Driller will continue on
of casing. Drilling resumed today at well site #3 and they are at 300' (lots of water-20 gal/min). Driller stated that he'd finis this well today, drop the loop 5 grout. Driller will continue on
of casing. Drilling resumed today at well site #3 and they are at 300' (lots of water-20 gal/min). Driller stated that he'd finis this well today, drop the loop 5 grout. Driller will continue on
at 300' (lots of water-20 gal/min). Driller stated that he'd finis this well today, drop the loop 5 grout. Driller will continue on
this well today, drop the loop & grout. Driller will continue on
this well today, drop the loop 5 grout. Driller will continue on
10/17/16 With drill Site #2. Drill Site #1 will not be used
it's too close to power/electric line underground. There's a silt
Dag on site for cuttings containment. (PE)
10/17/14 - Spoke to homeowner, Kevin Phielps who said that one of
The wells in the back yard is not in use. He was advised
that comar requires abandonment or he could put it in use
for irrigation. He said both wells were there when he bought
the house. Thinking of building a pool - may use well for that
2/17/16 Both well! drilled - recently growted ~ 12:15 pm. Allied no longer
on site (SC)

Rappaport, Ryan

From:

Kevin Phelps <kevinphelps@gmail.com>

Sent:

Friday, October 14, 2016 10:55 PM

To:

Rappaport, Ryan

Subject:

1703 Underwood Road Well Drilling

Mr. Rappaport,

I just found your card with the note to call you about my well permit. The wells are for geothermal heat loops. The permits are being handled by my contractor, Ground Loop Geothermal. I'll be happy to speak with you when you're available. My cell is 410-262-2387, but honestly my contractor will have more information—the Project Manager is Jason Cullum, his number is 410-836-1706.

Thank you,

Kevin Phelps 1703 Underwood Road Sykesville, MD 21784

Talk to homeowner about 2 potable wells in the backyard. Why 2? only have record of 1.

one was a replacement well why was 14 than other

Why 2 potable wells on property?

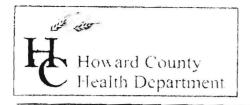






B 1 2448 SEQUENCE NO.	STATE OF	MARYLAND	STATE PERMIT NUMBER	
(MDE USE ONLY)	APPLICATION FOR PE	RMIT TO DRILL WELL	LID-04-25-02	
		e type	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Date Received (APA)	, , ,	B 3 //	fill in this form completely '9	
OWNER INFOR	RMATION	Howard	LOOATION OF WELL	
8 MM 00 / YY 13		8 COUNTY	21	
CAUSEY HAMMY		ANNAN	DACE	
15 Last Name Owner	First Name 34	23 SUBDIVISION	3 underwood 11 d. 42	
1703 underwood	120	SECTION L	LOT L 48 50	
36 Street or RFD	. 55	44 46	-	
Syldesuille MD. Town 70 State	21594. 72 Zip 76	west Frie	end ship	
DRILLER INFORMATION	72 ZID 76	52 NEAREST TOWN	. 1	
4	60117	MILES FROM TOWN (ente	er 0 if in town) M].	
Driller's Nation . MAYNE 1	6 License No. 81	B 4	75 76 77 78	
Royh E. MAYNE WE		1 2	underwood Rd.	
Firm Name	Ul)ricery.	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30	
112024 HARdy Ad Mt	4immo, 21221		ON WILLIAM SIDE OF DOWN MORTH	
Address 1	, 1		ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)	
15/1 5. Mun	11-6-02	8-9	WEST GLEST	
Signature .	Date	W TOWN E	34 250 37 SOUTH	
B 2 WELL INFORMATION APPROX. PUMPING RATE	5	' / '	DISTANCE FROM ROAD	
(GAL, PER MIN.)	B () 12	Sw S 8-9	ENTER FT OR MI 38 39	
AVERAGE DAILY QUANTITY NEEDED	20	8-9 S 8-9	TAX MAP: 9 BLK: 21 PARCEL	
(GAL. PER DAY) 14 USE FOR WATER (CIRCLE AP		NOT TO	D BE FILLED IN BY DRILLER	
OSE FOR WATER ICINCLEAR	PROPRIATE BOX)		H DEPARTMENT APPROVAL	
DOMESTIC POTABLE SUPPLY & RESIDEN	NTIAL	Howard	A24597	
= 51 STATE OF THE STOOK WATER BY A CO	ICULTURAL	COUNTY NAME . COUNTY NO.		
F IRRIGATION		STATE SIGNATURE INSERT S		
22 I INDUSTRIAL, COMMERICIAL, DEWATERIN	NG	DATE ISSUED) A 41	
P PUBLIC WATER SUPPLY WELL		11-19-12/	oce Moonar 11-19-03	
T TEST, OBSERVATION, MONITORING		43 MM DD YY /48	CO SIGNATURE EXP. DATE	
G GEO-THERMAL		SRID 8060	00 GRID 544 000	
G GEO-MENWAL		50	55 63	
→ ر	7)	SHOW MAJOR FEATURE BOX & LOCATE WELL		
APPROXIMATE DEPTH OF WELL 24	FEET 28	WITH AN X		
/	. WEAREST	SOURCES OF DRILLING	WATER	
APPROXIMATE DIAMETER OF WELL	INCH	1. well		
METHOD OF DRILLING	(circle one)	2.	\otimes	
BORED (or Augered), JETTED	Jetted & DRIVEN	3.		
30 AIR-ROTary AIR-PERcussion	ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMBE	·B	
37 CABLE REVerse-ROTary	DRive-POINT	FROM THE MAP HERE		
other			<u> </u>	
REPLACEMENT OR DEEPL	ENED WELLS	E 580	000	
(CIRCLE APPROPRIATE		-Crion	6 - 000	
N THIS WELL WILL NOT REPLACE AN EXIST	ING WELL	N	0	
THIS WELL WILL REPLACE A WELL THAT WILL BE			W SHOWING LOCATION OF WELL IN	
ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT	WILL BELISED		TOWNS AND ROADS AND GIVE TO NEAREST ROAD JUNCTION	
39 AS A STANDBY-CONTACT LOCAL APPROV		\	,	
FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEN AN EXISTING W	/EL)		,	
PERMIT NUMBER OF WELL TO BE REPLACED O			COLD FOR A	
(IF AVAILABLE) 41	- 52	N 1	OLD Fred R.	
Not to be filled in by driller (MDE OR C	COUNTY USE ONLY)	25	⊗veu)	
Not to be filled in by driner (with On C	JOSEPH TOLL ONLY	l w		
APPROP. PERMIT NUMBERG				
110	94 2502	3263	PIPES LA.	
PERMIT No. 70.71	- 94 - 3582 72 73 74 75 76 77 78 79	7	THE PARTY	
SPECIAL CONDITIONS				
HOTE . APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED :			●	

c 1 14318 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 COLS. 3-6 ON ALL CARDS)	FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY 13 A 24590
ST/CO USE ONLY DATE Received MM DD YY 8 13 15	The state of the s	PERMIT NO. FROM "PERMIT TO DRILL WELL" 28 29 30 31 32 33 34 35 36 37
OWNER CAUSEY	HARRY	
Maria Maria	WOOD ROOM first name TOWN	West Friendship
SUBDIVISIONANN ANDALE	OLO HON	LOT
WELL LOG Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	<u>C 3</u>
STATE THE KIND OF FORMATIONS PENETRATED, THEIR	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one)	PUMPING TEST 3
COLOR, DEPTH, THICKNESS AND IF WATER BEARING DESCRIPTION (Use FEET (Twater	CEMENT CIM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed) FROM TO bearing	NO. OF BAGS 46) NO. OF POUNDS 15 450	PUMPING RATE (gal. per min.)
Jap So. L 0 2 20 30 SANDY 20 30 40 45 WICKA 300 305 WICKA 300 300 WICKA 300 305 WICKA 300 305 WICKA 300 305 WICKA 300 305 WICKA 300 300 WICKA	GALLONS OF WATER 9 9 DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
Sandy. 2 30	trom 48 TOP 52 T. 10 54 BOTTOM 58 T. (enter 0 if from surface)	WATER LEVEL (distance from land surface)
SAND STONE 20 30	casing types types insert ST CO	BEFORE PUMPING 17 20 ft. WHEN PUMPING 360 ft.
MICKA 30 40	appropriate code below PLASTIC OTHER	22 25 IYPE OF PUMP USED (for test)
SANDSTONE 40 45 1	MAIN Nominal diameter Total depth- CASING top (main) casing of main casing	P piston T turbine
MICK # 45 305 V	TXPE (nearest inch)! (nearest foot)	C centrifugal R rotary (describe below)
Flint flock 35 360	60 61 63 64 66 70 E OTHER CASING (if used)	S submersible
MICKA 305 360	C diameter depth (feet) Inch from to	PUMP INSTALLED DRILLER INSTALLED PUMP YES (NO)
	s NG	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
	screen type SCREEN RECORD	MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A.C.J.P.R.S.T.O.) 29
	or open hole ST BRASS OPEN HOLE	IN BOX 29. CAPACITY:
	code below PLASTIC OTHER	(to nearest gallon) 31 35
*	C 2 DEPTH (nearest ft.)	PUMP HORSE POWER 37 41
NUMBER OF UNSUCCESSFUL WELLS:	740, 33 360	PUMP COLUMN LENGTH (nearest ft.)
WELL HYDROFRACTURED Y	A 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED	H 23 24 26 30 32 36	LAND SURFACE (nearest)
E ELECTRIC LOG OBTAINED	C 3 R 38 39 41 45 47 51	below) (100 to 1)
P TEST WELL CONVERTED TO PRODUCTION WELL	E SLOT SIZE 1 2 3	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS
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.	DIAMETER (NEAREST INCH) 56 60 from to	BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)
DRILLERS LIC. NO. 1 M. 5 D. 1 7	GRAYEL PACK	30' well
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	WAS FLOWING WELL INSERT F IN BOX 68 B8	T33'
KG. NO. I D I	(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W O	Ext Huse
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	70	



3525 H Ellicott Mills Drive, Ellicott City, MD 21043 (410) 313-2640 Fax (410) 313-2648 TDD (410) 313-2323 Toll Free 1-866-313-6300 website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

May 27, 2003

Mr. Harry Causey 1703 Underwood Road Sykesville, MD 21784

Re:

Replacement Well

1703 Underwood Road

Well Permit #HO-94-3582

Dear Mr. Causey:

This is to advise you that the septic system for the above referenced property has been installed and inspected. Final approval of the septic system was granted.

The water sample submitted for testing on May 13, 2003 was free of coliform and E. coli bacteria and was bacteriologically safe for drinking at the time of sampling.

FINAL CERTIFICATE OF POTABILITY

This certifies that all sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under permit #HO-94-3582. The well owner accepts his responsibilities under COMAR 26.04.04.10.

Date of Final Sampling:

May 13, 2003

Approving Authority,

Bert Nixon, Director

Community Services Program

Water Sample Dates:

May 13, 2003 (Bacteria, Nitrate & Turbidity)

April 7, 2003 (Bacteria)

December 10, 2002 (Bacteria & Chemical)

Enclosures



3525 H Ellicott Mills Drive, Ellicott City, MD 21043 (410) 313-2640 Fax (410) 313-2648 TDD (410) 313-2323 Toll Free 1-866-313-6300 website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer March 5, 2003

Mr. Harry Causey 1703 Underwood Road Sykesville, MD 21784

RE:

Replacement Well Connection

1703 Underwood Road Well Permit #: HO-94-3582

Dear Mr. Causey:

This office is requesting that you forward the enclosed form to the appropriate licensed contractor (Well Driller, Registered Plumber or Pump Installer) who is responsible for the installation of the well pump, well water line connection and related plumbing in the referenced replacement well. The contractor should complete this form neatly and submitted it to this office via fax or mail once the pump is placed in the well.

Submission of this completed form by the contractor is required for final approval of the field inspection, which should be conducted by an inspector from this office when the work is ready for inspection. The contractor is responsible for scheduling an inspection request with this office.

If you have any questions, or would like to discuss these matters further please call me at (410) 313-1771. Thank you for your attention to these important matters.

Respectfully,

Steven R. Krieg, Supervisor Registered Environmental Sanitarian Groundwater Management Section Well & Septic Program

Enclosure

cc:

Community Environmental Health Program / 4/14/03

File /

c 1 14318	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 (THIS NUMBER IS TO BE PUNCH IN COLS. 3-6 ON ALL CARDS)	ED	FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY 13 A 24590
DATE Received MM DD YY 8 13	15	Depth of Well 2 36 26 7 TO NEAREST FOOT)	FROM "PERMIT NO. FROM "PERMIT TO DRILL WELL" 28 29 30 31 32 33 34 35 36 37
OWNER TO THE	USEY Inde	WOOD Road first name TOWN	West Friendship
STREET OR RFDA	VNANDALE	SECTION	LOT
WELL LOG	TO THE PARTY OF	GROUTING RECORD YES NO	C 3
Not required for drive		WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST >
COLOR, DEPTH, THICKNESS AND	F WATER BEARING	TYPE OF GROUTING MATERIAL (Circle one) CEMENT C BENTONITE CLAY B C	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed) FRO	if water	11,	PUMPING RATE (gal. per min.)
Top So. L O	, 2	GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
Sandy 2	20	from 48 TOP 52 ft. to 54 BOTTOM 58 ft. (enter 0 if from surface)	WATER LEVEL (distance from land surface)
SANd Stowe 20		types insert CASING RECORD	BEFORE PUMPING 17 20 ft. WHEN PUMPING 360 ft.
SANDY 20 SANDSHOWE 20 MICKA 35	1.1	appropriate code below PLASTIC OTHER	TYPE OF PUMP USED (for test)
SANUSTOME 9	. ~~	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	P piston T turbine
MICKA 4	10-51	TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O (describe below)
FLINT ROCK 30 MICKA 30	- 210	60 61 63 64 66 70 E OTHER CASING (if used) A diameter depth (feet)	jet Submersible
MICK!		C inch from to	PUMP INSTALLED DRILLER INSTALLED PUMP YES NO
		S N G	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION
		screen type SCREEN RECORD or open hole	MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) 29
		insert appropriate code BRASS BRONZE HOLE	IN BOX 29. CAPACITY: GALLONS PER MINUTE
		below PLASTIC OTHER	(to nearest gallon) 31 35 PUMP HORSE POWER
NUMBER OF UNSUCCESSFUL W	ELLS:	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
WELL HYDROFRACTURED	yes N	E 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPROPRIATE A WELL WAS ABANDONED AN WHEN THIS WELL WAS COMP	ID SEALED	H ² 23 24 26 30 32 36 S C 3	LAND SURFACE (nearest)
E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO I WELL		R 38 39 41 45 47 51 E E SLOT SIZE 1 2 3	A LOCATION OF WELL ON LOT
I HEREBY CERTIFY THAT THIS WELL HAS ACCORDANCE WITH COMAR 28.04.04 "WE IN CONFORMANCE WITH ALL CONDITION CAPTIONED PERMIT, AND THAT THE IN HEREIN IS ACCURATE AND COMPLETE KNOWLEDGE.	LL CONSTRUCTION" AND S STATED IN THE ABOVE FORMATION PRESENTED	DIAMETER (NEAREST INCH) 56 60 from to	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)
DRILLERS LIC. NO. 1 M DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APP	tyr !	GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 ADDE 1005 ONLY	Prop (30' well) 733'
LIC. NO. I	D 1	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	LINES Ext House
SITE SUPERVISOR (sign. of drille responsible for sitework if different		TELESCOPE LOG 74 75 76 CASING INDICATOR OTHER DATA	

B 1 2448 SEQUENCE NO.	STATE OF	MARYLAND	STATE PERMIT NUMBER
I INDE USE UNLTI	APPLICATION FOR PL	ERMIT TO DRILL WELL	HD-94-3582
	W517987 pleas	e type	70 fill in this form completely 79
Date Received (APA)		B 3 //	LOCATION OF WELL
OWNER INFOR	MATION	Howard	
8 MM DD YY 13		8 COUNTY	21
L CAUSEY HARRY		ANNAN	DACE
15 Last Name Owner	First Name 34	23 SUBDIVISION	3 underwood 110, 42
36 Street or RFD	120.	SECTION 44 46	LOT
Survey of the same	2,564		
3/15030-00	72 Zip 76	52 NEAREST TOWN	FNO Ship
DRILLER INFORMATION	MANUEL DE LE		3
RAGHE MAYNE N	SD117 .	MILES FROM TOWN (ente	r 0 if in town) M 1
Driller's Name 76		B 4	
Robh E. MAYNE WEL	c Dricciny;	1 2 DIRECTION OF WELL FROM	underwood Rd
Firm Name		TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
17024 HARdy Ad. Mt A	figm10, 21921		ON WHICH SIDE OF ROAD NORTH
Address	, , , ,		(CIRCLE APPROPRIATE BOX)
fall ? Myen	11-6-02		WEST EAST
Signature B 2 WELL INFORMATION	Date	(TOWN)—E	34 50 37 SOUTH
B 2 WELL INFORMATION APPROX. PUMPING RATE —	5		DISTANCE FROM ROAD ENTER FT OR MI 38 39
(GAL. PER MIN.)	500 12		9 11 300
AVERAGE DAILY QUANTITY NEEDED	20	8-9 S 8-9 8	TAX MAP: BLK: PARCEL
USE FOR WATER (CIRCLE API	PROPRIATE BOX)		BE FILLED IN BY DRILLER
DOMESTIC POTABLE SUPPLY & RESIDEN	TIAI	HEALT	1 DEPARTMENT APPROVAL
IRRIGATION		Howard	#29590
F FARMING (LIVESTOCK WATERING & AGRI	CULTURAL	COUNTY NAME	COUNTY NO.
Innigation		STATE SIGNATURE	INSERT S →
indoctrime, commence, between	G	DATE ISSUED) 41
P PUBLIC WATER SUPPLY WELL	L Mr. a Disk	11-19-02/6	CO SIGNATURE EXP. DATE
T TEST, OBSERVATION, MONITORING		43 MM DD YY 48	EAST 544
G GEO-THERMAL	er, Speka salight	GRID 50	0 0 GRID 0 0 0 63
		SHOW MAJOR FEATURES	SOF 11/25/02 8:30
APPROXIMATE DEPTH OF WELL 150	FEET	BOX & LOCATE WELL '_	11/23/02 8-30
24	28	WITH AN X	
APPROXIMATE DIAMETER OF WELL	9 NEAREST INCH	SOURCES OF DRILLING V	WATEH
		2.	
METHOD OF DRILLING		3.	
BORED (or Augered) JETTED AUD DED	Jetted & DRIVEN		
37 AIR-PERCUSSION	ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMBER	
CABLE HE Verse-HOTary	DRive-POINT	FROM THE MAP HERE	44
other		580	
REPLACEMENT OR DEEPE		5 30	000
(CIRCLE APPROPRIATE N THIS WELL WILL NOT REPLACE AN EXISTI		N 800	6 - 000
THIS WELL WILL DEBLACE A WELL THAT A		DRAW A SKETCH BELOW	SHOWING LOCATION OF WELL IN
ABANDONED AND SEALED			OWNS AND ROADS AND GIVE
39 THIS WELL WILL REPLACE A WELL THAT W		DISTANCE FROM WELL T	O NEAREST ROAD JUNCTION
39 AS A STANDBY-CONTACT LOCAL APPROVI	NG AUTHORITY		
D THIS WELL WILL DEEPEN AN EXISTING WE	ELL		The state of the s
PERMIT NUMBER OF WELL TO BE REPLACED OF		N	OLD Fred R.
(IF AVAILABLE) 41	52	259	10
Not to be filled in by driller (MDE OR C	OUNTY USE ONLY)	130	Duen 10 1
ADDROD DEDMIT NUMBER	G	.65	
APPROP. PERMIT NUMBER		150	
PERMIT No. HO-	-94-3582	23/	PIPES LA.
70 71 7	2 73 74 75 76 77 78 79	9 7	
SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED			

LOCATION DIAGRAM SEPT 1504 Approx New well site o Adj.	or MAM.	SITE INSPI	ECTION SHEET	Ma	
WELL TAG #: #D-84-1970 -00 SUBDIVISION: LOT: COUNTY #: PROPOSAL: Low flow New TAG H0-94-3582 LOCATION DIAGRAM Septo 1501 Septo	_ / /) ^	-	Mayne	
LOCATION DIAGRAM LOCATION DIAGRAM Septo 1504 Approx New well site o Adj.	ADDRESS: // 3 Mnow	wild pr			0 0
LOCATION DIAGRAM A SEPT 150 + O Mell Solution Diagram Approx New well site O Adi.	SUBDIVISION:	LOT:	COUNTY #:		
Aspen New well site Owell Street Street Dw. C.D.	PROPOSAL: Low flow		New Ti	16 HO-94	3582
Juell State Approx New well site Adi: State Dw. Co.	3	LOCATIO	ON DIAGRAM		
Approx New well site 33' 8 5.7 co. 0 Dw. Co.		A cop	1 150 t		
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dj we!! 8 s. T f. O. D. W. C.D.		ĺ	Approx New	well silv	
J 33' 8 5. T 6.0. D. W. C.O.		o well L			0 11-
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C1 2429 SEQUENCE NO. (OEP USE ONLY) (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)			STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER	
DATE Received DATE WELL COMPLETED 13 DATE WELL COMPLETED 15 20				Depth of Well 22 26 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" 28 29 30 31 32 33 34 35 36 37
OWNER	last name	77	rede	Roog first name TOWN	
SUBDIVISION	111411	dal	years .	SECTION	LOT
WELL Not required fo		vells	The II	GROUTING RECORD yes no WELL HAS BEEN GROUTED	C 3
STATE THE KIND O PENETRATED, THEI	F FORMA	TIONS R, DEPT		(Circle Appropriate Box) TYPE OF GROUTING MATERIAL	PUMPING TEST HOURS PUMPED (nearest hour)
THICKNESS AND IF DESCRIPTION (Use additional sheets if needed)	FEE		Check if water bearing	CEMENT C M BENTONITE CLAY B C 45 46 NO. OF BAGS NO. OF POUNDS	PUMPING RATE (gal. per min. 11 15
Top So. L	0	2		GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot) from ft. tq ft.	METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface)
Shirty	2	20	J. J.	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	BEFORE PUMPING
Stand Stone	20	30		types insert appropriate STEEL CONCRETE	WHEN PUMPING 22 25 TYPE OF PUMP USED (for test)
Micka	30	40		code below PLASTIC OTHER	A air P piston T turbine
SANd Stone	40	45		MAIN Nominal diameter Total depth CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	C centrifugal R rotary Other (describe below)
Micka	45	165		(Hearest Hich) (Hearest 1001)	J jet S submersible
CIRCLE APPRO	DPRIATE I	FTTER		Screen type or open hole insert appropriate code below C 2 1	PUMP INSTALLED DRILLER WILL INSTALL PUMP YES NO (CIRCLE) (YES Or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE below Helow LAND SURFACE (nearest foot)
A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL		CTION	SLOT SIZE 1 2 3 (NEAREST OF SCREEN 56 60 INCH)	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)	
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 10.17.13 "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 IDENT. NO.			RUCTION" ED IN THE DRMATION	GRAVEL PACK 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	350' 75' P
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)			TION)	(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76	Leur King
SITE SUPERVISOR (sign. responsible for sitework if	of driller of different	or journ from pe	eyman ermittee)	TELESCOPE LOG OTHER DATA CASING INDICATOR HEALTH	

