B 1 2716 SEQUENCE NO. (MDE USE ONLY)		MARYLAND FRMIT TO DRILL WELL	HO -94 - 4018
	520755-B pleas	e type	70 fill in this form completely 79
Date Received (APA)		B 3 HAVY	LOCATION OF WELL
8 MM 80 YY 13	HMATION	8 COUNTY	21
15 Last Name Jowner	First Name 34	23 SUBDIVISION	, 1411
13058 Twelve Hill	s Rd	SECTION L	LOT 1 52
36 Street or RFD	55	44 46	48 50
57 Town 70 State	72 Zip 76	52 NEAREST TOWN	71
DRILLER INFORMATION	0	MILES FROM TOWN (ente	r 0 if in town)
	MS D 009 6 License No. 81	B 4	73 76 77 78
Fogle Well Drill	ing	1 2 DIRECTION OF WELL FROM	Twelve Idill RD
Firm Name	2	TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
Address	1	NW 8 NE	(CIRCLE APPROPRIATE BOX)
alla Copt	6-30-04	100	W 2 E west seast
Signature B 2 WELL INFORMATION	Date	TOWN E	34 37 SOUTH DISTANCE FROM ROAD
1 2 APPROX. PUMPING RATE — (GAL. PER MIN.)	8 600 12	S _W S _E	ENTER FT OR MI 38 39
AVERAGE DAILY QUANTITY NEEDED	500	8-9 S 8-9	TAX MAP: BLK: PARCEL PARCEL
USE FOR WATER (CIRCLE AF	PROPRIATE BOX)		BE FILLED IN BY DRILLER H DEPARTMENT APPROVAL
DOMESTIC POTABLE SUPPLY & RESIDER	NTIAL	Howard	AS18986
FARMING (LIVESTOCK WATERING & AGR	ICULTURAL	COUNTY NAME	COUNTY NO.
IRRIGATION 22 INDUSTRIAL, COMMERICIAL, DEWATERIN	NG.	STATE SIGNATURE	NSERT S -
P PUBLIC WATER SUPPLY WELL	vu	DATE ISSUED	(tel Str. 2/1/05
T TEST, OBSERVATION, MONITORING		43 MV DD YY 48	CO SIGNATURE EXP. DATE
G GEO-THERMAL		NORTH 6// 0	0 0 GRID 0 0 0 55 63
2.	^	SHOW MAJOR FEATURES	OF QUANUGERIA
APPROXIMATE DEPTH OF WELL	FEET 28	BOX & LOCATE WELL ' WITH AN X	3/
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	SOURCES OF DRILLING V	VATER
47		2.	Machine Hills
METHOD OF DRILLING BORED (or Augered) JETTED	(circle one) Jetted & DRIVEN	3.	2/.
30 AIR-ROTary AIR-PERcussion	ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMBER	1 /8 /
37 CABLE REVerse-ROTary	DRive-POINT	FROM THE MAP HERE	
other	MED WELLS	E 5100	000 Linden Church RD
(CIRCLE APPROPRIATE	BOX)	218	Cinden Cinden
THIS WELL WILL NOT REPLACE AN EXIST THIS WELL WILL REPLACE A WELL THAT		N DRAW A SKETCH BELOW	SHOWING LOCATION OF WELL IN
ABANDONED AND SEALED		RELATION TO NEARBY TO	DWNS AND ROADS AND SIVE O NEAREST ROAD JUNCTION
39 S THIS WELL WILL REPLACE A WELL THAT AS A STANDBY-CONTACT LOCAL APPROV		BIOTANCE PHOM WELL I	O NEXTLEST FISHER STATE IN
FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEN AN EXISTING W	ELL		
PERMIT NUMBER OF WELL TO BE REPLACED O	R DEEPENED 52	N	2
Not to be filled in by driller (MDE OR C		A	Twelve
A PERC VI	CONT. OGL ONLI)	/ /	13/ ree of
APPROP. PERMIT NUMBER	066 (1006)	1	Linden Church RD
PERMIT No. 70, 71, 7	- 99 - 90/8 2 73 74 75 76 77 78 79	V	Linden
SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED -	2 13 14 13 10 11 10 19	Mary Mary 1997	●

01 3797	(MDE USE ONLY)	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.		
1 2 3 6 (THIS NUMBER IS TO BE PUIN COLS. 3-6 ON ALL CARD		WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY A 5 18986		
ST/CO USE ONLY	DATE WELL COM		PERMIT NO. FROM "PERMIT TO DRILL WELL"		
DATE Received MM - DD YY		84 22 125 26	HO-94-4018		
8 13	H 15	20 (TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37		
OWNER/ STREET OR RFD	last name—	HILE RID First name TOWN	Chikeselle		
SUBDIVISION	Twelve H.	SECTION	LOT 52		
WELL		GROUTING RECORD YES NO	C 3		
Not required for		WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST		
STATE THE KIND OF FORMAT COLOR, DEPTH, THICKNESS		TYPE OF GROUTING MATERIAL (Circle one) CEMENT C M BENTONITE CLAY B C	HOURS PUMPED (nearest hour)		
DESCRIPTION (Use additional sheets if needed)	FEET Check if water bearing		PUMPING RATE (gal. per min.)		
Brown	0 80	GALLONS OF WATER 197	METHOD USED TO		
	在 2000年	DEPTH OF GROUT SEAL (to nearest foot) from ft. to ft.	MEASURE PUMPING RATE		
Gray	80 110	(enter 0 if from surface)	WATER LEVEL (distance from land surface)		
Limestone	9	casing CASING RECORD types	BEFORE PUMPING 17 20 ft.		
		appropriate STEEL CONCRETE	WHEN PUMPING 35 ft.		
Whatc	110 111 0	code below PLASTIC OTHER	TYPE OF PUMP USED (for test)		
fras		MAIN Nominal diameter Total depth CASING top (main) casing of main casing	A air P piston T turbine		
Linestown	111 125	CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O (describe below)		
·Dryhola		60 61 63 64 66 70	J jet S submersible		
(Cenent	0 75	E OTHER CASING (if used) A diameter depth (feet)	27 27		
A		A diameter depth (feet) H inch from to	PUMP INSTALLED		
() cement	100	Š	DRILLER INSTALLED PUMP YES (CIRCLE) (YES or NO)		
Q COMMON	0 100	N	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.		
Rock ruttings	100 800	screen type SCREEN RECORD	TYPE OF PUMP INSTALLED		
Curams		or open hole ST BR HO	IN BOX 29.		
		(appropriate code BRONZE HOLE	CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35		
		below PLASTIC OTHER	(to nearest gallon) 31 35 PUMP HORSE POWER		
		C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH		
NUMBER OF UNSUCCESSF		12 HO 88 1551	(nearest ft.) 43 47		
WELL HYDROFRACTURED	yes N	A 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)		
CIRCLE APPROP		C H 2 23 24 26 30 32 36	LAND SURFACE		
A WELL WAS ABANDON	COMPLETED	s Ca	below (nearest)		
P TEST WELL CONVERTED		R 38 39 41 45 47 51 E E SIOT SIZE 1 2 3	49 50 51 A LOCATION OF WELL ON LOT		
I HEREBY CERTIFY THAT THIS WELL ACCORDANCE WITH COMAR 26.04.0		N SECTORE T	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR		
IN CONFORMANCE WITH ALL CONICAPTIONED PERMIT, AND THAT THEREIN IS ACCURATE AND COM	DITIONS STATED IN THE ABOVE THE INFORMATION PRESENTED	OF SCREEN INCH)	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES		
KNOWLEDGE.		from to	(MEASUREMENTS TO WELL)		
DRILLERS LIC. NO. 1 A	4 > D - O - O - I - I	GRAVEL PACK	1000102 11112		
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)		WAS FLOWING WELL INSERT F IN BOX 68 68	25 713		
LIC. NO. 1		MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W.O.	2 well 120		
LIO. NO.1			708 A		
SITE SUPERVISOR (sign. of		70 72 72 74 75 76 TELESCOPE LOG 74 75 76	£ 27		
responsible for sitework if diff	rerent from permittee)	CASING INDICATOR OTHER DATA	800 Dry hoe		

Page of		Review						
rate								
•	FIELD DATA SHEET HOWARD COUNTY WELL YIELD TEST							
	211							
Well Permit No	. HO - 94-	4018 Tracker	H. Ms Rd 52 Block Plat					
Subdivision	Twelve 1	4.1/s Lot	52 Block Plat	Sec.				
Well Driller _	Fugles	Owne	r					
Depth of	f well 125							
DIStance	c or measureing po	The (mil.) above gr	ound /					
Static	water level (5.W.	L.) below M.P.	30					
	pumping reser							
Time pump	p started 8.00	<u> </u>	Pumping rate 15 level 35 ft.					
Total tir	me 15 min to	reach pumping water	level 35 ft. 1	below M.P.				
II. Recovery	pump test data -	observations to be	recorded every 15 minus	tes				
TIME (in 15	WATER LEVEL	PUMPING RATE	FLOW METER READING	CALCULATED FLOW				
minute in- tervals	below M.P.	time to fill 3\ gallon bucket	(if used)	(gallons per minute)				
8:00	30	4		15				
8-15	35	4		15				
8:30	35	6		10				
8:45	35	le		10				
9:00	35	Le		10				
9:15	35	6		10				
9.30	35	C		10				
9:45	35	6		10				
10.00	35	6		10				
10:15	35	le		10				
(0-30	35	6		10				
10.45	35	4		10				
11:00	35	6		10				

FIXED 2-5-07

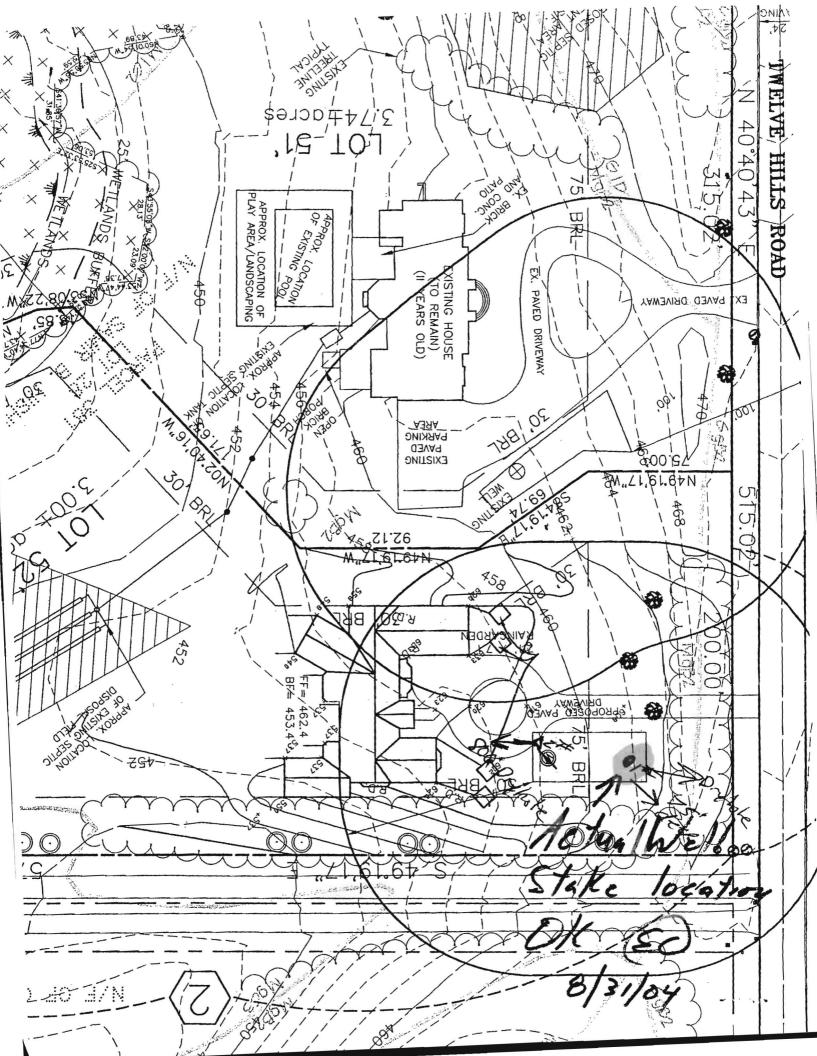
Feb 27 04 11:03a HO GO FNY HF81TH 14103132648

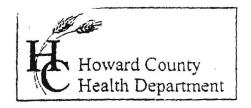
HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH WATER AND SEWERAGE PROGRAM TEL: (410)313-2640 FAX: (410)313-2648

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

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired
inspection. No work is to be covered until approved by the Health Department. All installations must comply
with the National Standard Flumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well
Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.
Company Name: NATIONA WATER SUCINSTELEPHONE # 301-854-1333
Address: PO (30) 138
ASTON NEW ZOOD
A STATE OF THE PARTY OF THE PAR
(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation: Name (Print): DAVID RYCKE License# P1 - 0145
A licensed individual most 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. Unlicensed individuals may be reported to the appropriate licensing agency.
Name of Property Owner: Cless County As Telephone #:
Subdivision: Lot #: Well Tag #: HO - 94 - 4018
Sinc Address: 13060 TWENE HILLS Rd
CINEKSVIlle, N.D. 21029
Submersible Pump Data Pittess Adapter Well Cap and Electric Conduit
Make: GRUNDFOS Make: KII Two piece watertight cap:
Model#: (5 SQE 6 7-180 Model#: Screened, vented well cap:
Pump Capacity 15 GPM Depth: 34 (36" min) Cap secured to casing:
Well Yield: 6PM NSI/WSC approved: 5 Conduit min 18" B.G
Depth of well encountered at time of pump installation: (feet) Conduit secured to well cap:
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors, Cable guards, or other acceptable method used. Must circle one
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing
Piping to house / House Connection
Type: AGUA Vet PVC sleeve to undisturbed soil at wall penetration: YES
PSI: 160 psi min) Approximate length of sleeve: 8
Depth of supply lines 36,30" min) Sleeve caulked and scaled properly: $\sqrt{\epsilon}$
Siete danked and stated properly.
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 cannot be
approval property installed.
10/25/06
Signature of company representative responsible for installation date
The Only - Not to be completed by Justailer
BB 1 Th
Onte Insp. Requested: Date Insp. Approved: 10-19-06 Inspector: Light Texture Control Selection adapted waterright & water supply line at Januar 16 holy against
The August Sugar, Services numbered materialists of materialists files at financing positive Service.
Two store can invalled and attached to casing securely
Onte Insp. Requested: Date Insp. Approved: 10-19-06 Inspector: Line of the State of the Market Control of th
Sufety rope not seen ourside of well capycasing
Correct was minuted property and covery in stone intition of gracing
Water supply line alseved adequately at house connection
Main square graph shows and in how this has minimize
HD-215
MD-213

INSPECTION. LATE Afterwood 10-19-06





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

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

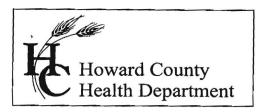
	·
	he well site has been staked by
(rofessional land surveyor or company employing professional land surveyors)
((date) and does not require a site inspection.
]	he well driller, builder or property owner will call the Health epartment to schedule a time to meet in the field to verify the oposed well site location.
This sh	et, along with two copies of an acceptable well site plan, must be

Revised 6/10/03

attached to the green well permit application.

Homeowner Started well - Cath
when you need to meethur out theel

8/31/04 - Ste visit, well closer to
The road in well box. Location DK SO



7178 Columbia Gateway Drive, Columbia Maryland 21046

(410) 313-1771

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

02/12/2007

Glenn Bowman P.O. Box 100 Columbia, MD 21045

SENT VIA FASCIMILE 410-381-2576

RE: Twelve Hills, Lot 52 13060 Twelve Hills Rd. Clarksville, MD 21029 BP # B00158265 Well Permit # HO-94-4018

Dear Sir/Madam:

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 on 02/02/2007. Final approval of the well line connection to the dwelling was approved on 10/19/2006.

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. The water sample results were found to be in compliance with COMAR water quality standards.

INTERIM CERTIFICATE OF POTABILITY

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-94-4018. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.

Date of Water Samples:

11/06/2007, 11/16/2007

Date of Well Completion:

11/05/2004

Approving Authority

Kevin Wolf, Sanitarian Well & Septic Program

Building Inspector's Office Community Health Services

File

cc:

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #:

61343

Reference:

Glen Bowman

Location:

13060 Twelve Hills Road

Clarksville, MD 21029

Date/ Time Collected: 11/16/2006

11/16/2006

Free: ND

J.Yeager

<1.0

<1.0

1345

6176JY

Total: ND

Treatment: pH:

Source:

Site:

Account #:

Company:

Requested By:

Well #:

<1.0

HO-94-4018

METHOD

6.0

Dave Rycke

Well Water

Pressure Tank

3123

National Water Servicing

Softener/Sediment Filter/Neutralizer**

PARAMETERS

Bacteria, E. coli, MPN

Bacteria, Coliform, Total, MPN

Date/Time Rec'd:

Chlorine ppm:

Collected By:

RESULTS UNITS REFERENCE MPN/ 100 ml <1.0

MPN/ 100 ml

SM18 9223 B. SM18 9223 B. 11/17/2006 / 0825 / AD/BD 11/17/2006 / 0825 / AD/BD

DATE/TIME/ANALYST

NOTES:

1 **Sample collected prior to treatment

2 MPN/ 100 ml - Most Probable Number [of viable bacteria] per 100 ml of sample.

3 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.

ND:None Detected

5 Visual well check: Sealed, vented cap

pI-I tested on-site

Reason for Test:

Use & Occupancy

Building Permit #:

158265

Date Reported:

11/18/2006

11/07/2006 14:09

FOUNTAIN VALLEY ANALYTICAL LABORATORY. INC.

1413 Old Faneytown Rd Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #:

61244

Account #:

Reference:

Glen Bowman

Company:

National Water Servicing

Location:

13060 Twelve Hills Road

Requested By:

Dave Rycke

Clarksville, MD 21029

Date/ Time Collected: 11/6/2006

Source: Site:

Well Water Pressure Tank

Date/Time Rec'd:

11/6/2006

1600

Treatment;

Softener/Sediment Filter/Neutralizer**

Chlorine ppm;

Free: ND

Total: ND

pH:

6.7

Collected By:

C. Mooshian

7268CM Well #:

HO-94-4018

PARAMETERS	RESULTS	UNITS RE	FERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	200.5	MPN/ 100 ml	<1.0	SM18 9223 B.	11/7/2006 / 1010 / AD/BD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223 B.	11/7/2006 / 1010 / AD/BD
Nitrate	7.85	mg/L	10	601	11/6/2006 / 1615 / BCD
Turbidity	4.81	NTU	<10	SM18 2130B	11/6/2006 / 1600 / AD/BD
Sand	NS	ing/L	5	Visual/Gravimetric	11/6/2006 / 1600 / AD/BD

NOTES:

- 1 **Sample collected prior to treatment
- mg/L = milligrams per liter (also, parts per million) 2
- 3 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 4 NS - None Seen (NS indicates less than 5 mg/L)
- 5 NTU = Nephelometric Turbidity Units
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 7 ND:None Detected
- 8 Visual well check: Sealed, vented cap
- 9 pH tested on-site

Reason for Test:

Use & Occupancy

Building Permit #:

158265

Date Reported:

11/7/2006