

C1 60027 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY DATE RECEIVED MM 05 10 21

DATE WELL COMPLETED MM 2 7 20 Approved 8/9/20 (S) Depth of Well 200 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 10-18-0169

OWNER Watson Erol WELL SITE ADDRESS 13625 Nichols Dr TOWN Clarksville, MD SUBDIVISION SECTION LOT

WELL LOG Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED YES (Y) NO (N)

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 M S D 1026 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 D

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

GROUTING RECORD WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 14 NO. OF POUNDS 700 GALLONS OF WATER 350 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 80 ft.

CASING RECORD casing types insert appropriate code below MAIN CASING TYPE (ST) Nominal diameter top (main) casing (nearest inch) 5 Total depth of main casing (nearest foot) 80

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD screen type or open hole (ST) (BR) (HO) (PL) (OT) insert appropriate code below

DEPTH (nearest ft.) 1 2 3 4 5 6 7 8 9 11 15 17 21 23 24 26 30 32 36 38 39 41 45 47 51

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 100 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 12 ft. WHEN PUMPING 20 ft. TYPE OF PUMP USED (for test) (A) air (P) piston (T) turbine (C) centrifugal (R) rotary (O) other (J) jet (S) submersible

PUMP INSTALLED DRILLER INSTALLED PUMP YES (NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) (+) above (-) below LAND SURFACE (nearest foot) 49 50 51

LATITUDE 39.201479 0885 LONGITUDE 76.988757493 (DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryland Code 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.

B 1 66651

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type

STATE PERMIT NUMBER H0-18-0169 fill in this form completely

Date Received (APA) 01/28/20 OWNER INFORMATION Watson Errola Last Name Owner First Name 13675 Nichols Dr Street or RFD Clarksville ms 21029 Town State Zip

B 3 LOCATION OF WELL Howard COUNTY 21 23 SUBDIVISION 42 SECTION 44 46 LOT 48 50 Clarksville NEAREST TOWN 52 71

DRILLER INFORMATION Marshal Arnette MS D106 Driller's Name License No. Allied Well Drilling Firm Name P.O. Box 129 Annapolis Junction MD Address Marshal Arnette Signature Date 01/27/2020

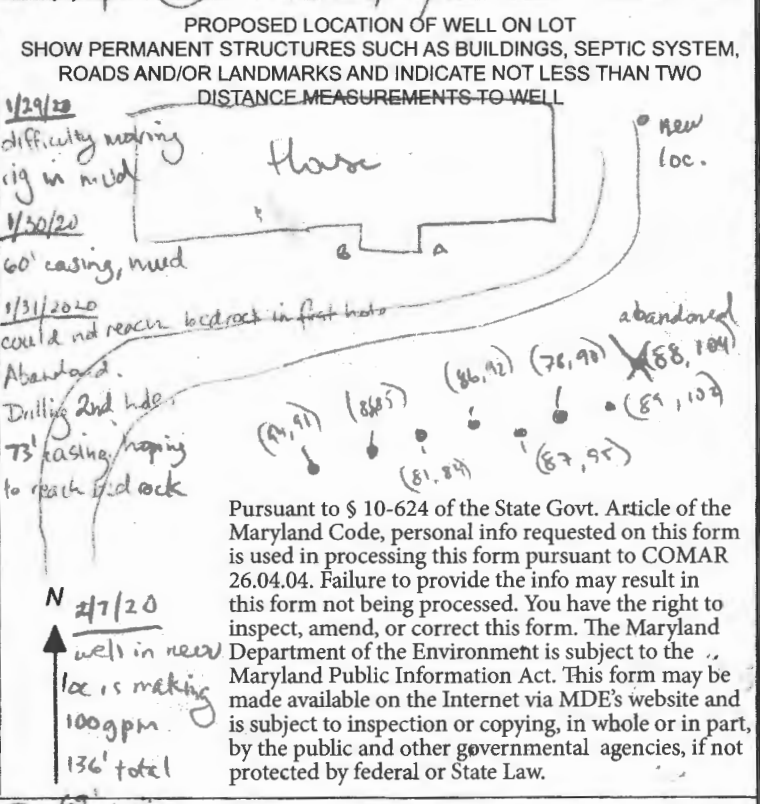
B 4 SOURCES OF DRILLING WATER 1. Public 2. 3. 13675 Nichols Dr STREET ADDRESS ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) DISTANCE FROM ROAD ENTER FT OR MI TAX MAP: 0034 BLK: PARCEL 0216

B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard COUNTY NAME 13 COUNTY NO. STATE SIGNATURE INSERT S DATE ISSUED 01/28/20 SUPER THOMAS CO SIGNATURE EXP. DATE

USE FOR WATER (CIRCLE APPROPRIATE BOX) D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) I INDUSTRIAL, COMMERCIAL, DEWATERING P PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING O OPEN LOOP GEOTHERMAL C CLOSED LOOP GEOTHERMAL

APPROXIMATE DEPTH OF WELL 400 FEET APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH



METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jettied & DRIVEN AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary DRIVE-POINT other

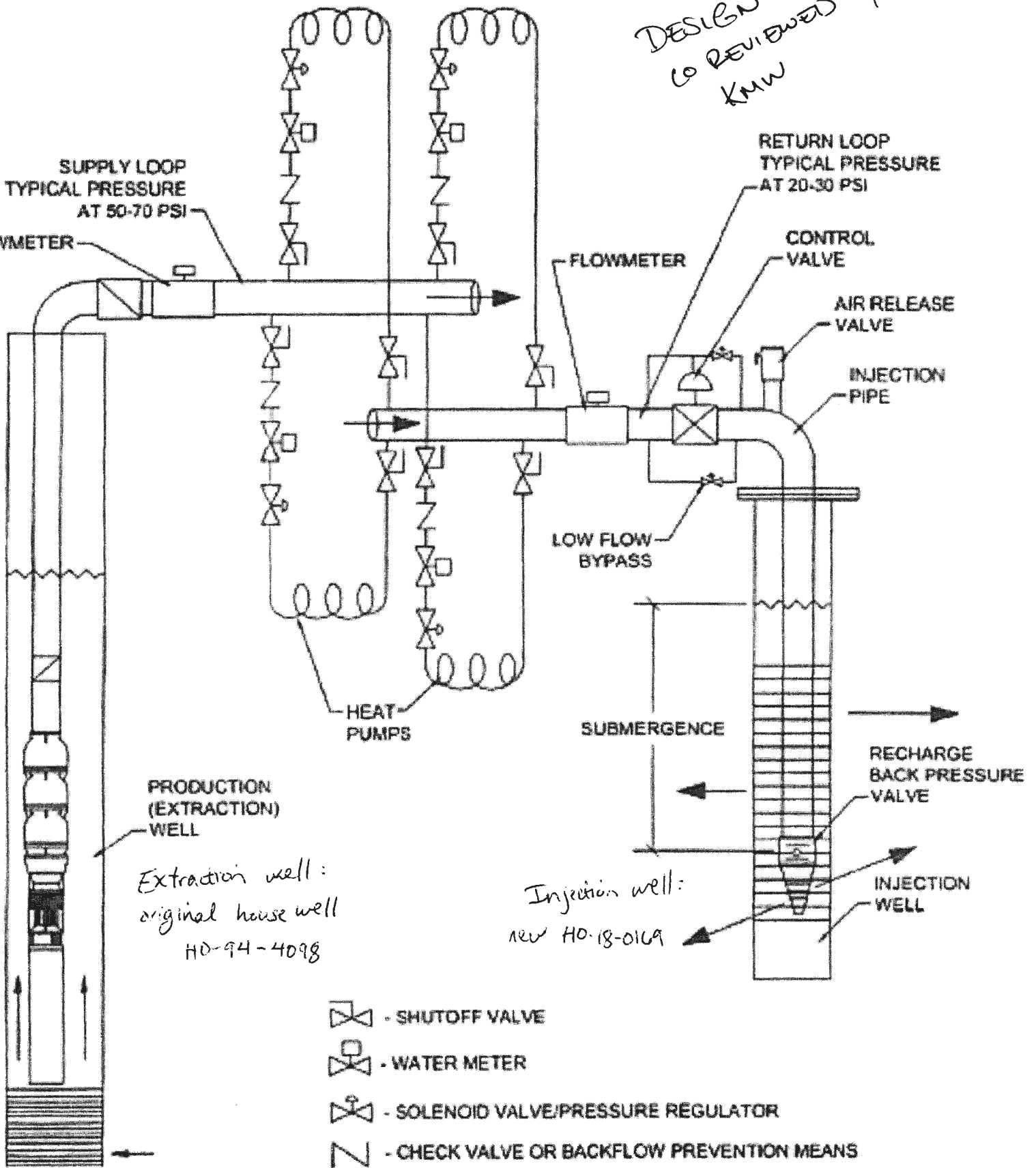
REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX) N THIS WELL WILL NOT REPLACE AN EXISTING WELL Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEIN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41

Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER G PERMIT No. H0-18-0169

SPECIAL CONDITIONS GROUT FROM BOTTOM TO TOP 6' casing

13675 Nichols Dr

DESIGN APPROVED
& REVIEWED w/ J. BOELS (MDE)
KMW



09/18/2020

1" = 50'

Parcel 146

Parcel 109

S 2A° 07' 03" W

280.00'

Primary Septic Area

Backup Septic Area

Part of Parcel 216

Part of Parcel 114

Wood Retaining Wall

Septic Tanks

In-Ground Pool

40.0' Proposed Garage

Ex. Well Location

Ex Deck

104' ±

Distances

	A	B
1	- 88	104
2	- 89	102
3	- 78	90
4	- 87	95
5	- 86	92
6	- 81	84
7	- 85	88
8	- 94	91

See Detail #13675

Finished Asphalt Paving

Ex Asphalt

Well for Open Loop

Asphalt

Drive

Existing

28° 00' E R = 420.00'

A = 161.75' N 15° 13' 00" E

212.00'

N 65° 12' 00"

NICHOLS

(RW Varies)

DRIVE

13675 Nichols Dr
Approved 1/28/2020 (E)
Staked by driller

Drawn By, Tom Olive
Checked By, Brad K.
Date: 12-27-2017
Scale: 1" = 50'
Job No. 1269-17
Case No. E. Watson

SURVEYS

Land Development * Sur
Engineering * Pei
350 MAIN ST
LAUREL, MARYLAN
PHONE 301-776-0561



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Water and Science Administration - Water Supply Program

1800 Washington Blvd, Baltimore MD 21230

410-537-3590 * 1-800-633-6101 * fax 410-537-3157

APPLICATION TO APPROPRIATE AND USE WATERS OF THE STATE

Type of Application: [X] New [] Renewal [X] Modification Existing Permit Number: HO-18-0169

APPLICANT INFORMATION (Person/Entity to whom permit will be issued)

Business Name: Erol Watson Contact Name: (same)
Mailing address: 13675 Nichols Dr
City: Clarksville State: MD Zip Code: 21029
Phone: 240-286-3907 Mobile: Fax:
Email: ewatson@tecollc.net
The applicant is the: [] Water User [] Land Owner [X] Both
Permit is to be issued to [X] Individual [] Business

LAND/PROPERTY OWNER INFORMATION (IF DIFFERENT FROM APPLICANT)

Name: Same address
Mailing Address:
City: State: Zip Code:
Phone: Fax: Email:

CONSULTANT OR OTHER CONTACT INFORMATION

Name: Allied Well Drilling / Audrey CAPELLE
Mailing Address: P.O. Box 129
City: Annapolis Junction State: MD ZIP Code: 20701
Phone: 410-321-2219 Fax: Email: acapelle@alliedwells.com

REQUESTED APPROPRIATION OR USE

Groundwater: Avg. daily use (total annual use/365): 7200 gpd
Avg. during month of maximum use (highest month/30): 15,360 gpd
Surface Water: Avg. daily use (total annual use/365): gpd
Maximum daily use (highest day of year): gallons

HOW WILL THE WATER BE USED? (Please check all that apply and describe)

[] Community Water Supply SDWIS#: Pop. served: No. of connections:
[X] Potable/Sanitary Uses No. of connections:
[] Commercial/Institutional No. regular customers: Sq. footage:
Type/Name of business:
[] Subdivision on individual wells Total No. of lots (based on full buildout):
[] Industrial/Mining Describe uses:
[] Power Generation Describe uses:
[] Non-agricultural irrigation No. of acres:
[X] Other (describe) OPEN LOOP GEOTHERMAL

LOCATION OF WITHDRAWAL (Attach additional sheets if necessary)

Street address and/or location description: 13675 Nichols Drive
Town/City: Clarksville County: Howard
Tax map/grid/parcel/lot: 0034.wmp/0216 parcel Subdivision Name:
Lat/Long: 39.200898, -76.988417

All applications must include location map. Subdivision applications must include plat.

GROUNDWATER WATER SOURCE(S) (Attach additional sheets if necessary)Source (check all that apply) Well Spring Groundwater Pond Other (describe)

Total no. of wells: 2 No. of new wells: 1 No. of existing wells (not abandoned):

Well tag number	Well name/description	Depth (ft)	Diameter (inches)	<input type="checkbox"/> New <input checked="" type="checkbox"/> Existing
Ho-94-4098	Domestic well	200	6	<input checked="" type="checkbox"/> New <input type="checkbox"/> Existing
Ho-14-0169	Open-loop Geo	240	6	<input type="checkbox"/> New <input type="checkbox"/> Existing
				<input type="checkbox"/> New <input type="checkbox"/> Existing
				<input type="checkbox"/> New <input type="checkbox"/> Existing

SURFACE WATER SOURCESource (check all that apply) Stream/River Lake Pond Bay

Name of source: Location of intake:

Is the intake located on property owned by the applicant? Yes No

Surface Water Pump Capacity (gallons per minute): Maximum Run Time in a Day (hours):

*****ATTACH A MAP OF THE EXISTING AND PROPOSED WATER WITHDRAWAL LOCATIONS (WELLS, PONDS, STREAMS, ETC.)*******WASTEWATER DISPOSAL (check one)**

- Public Sewer Groundwater Spray irrigation
- Groundwater Subsurface (tilefield, seepage pit, etc.) Groundwater Other (please explain):
- Surface water Name of stream:

DISCHARGE PERMIT NUMBER:

CONSERVATION EASEMENTSIs there a conservation easement on any part or all of this property? Yes No


If yes, who holds the easement?

Have you notified the holder of the easement of your intent to use the water? Yes No N/A**PRIVACY NOTIFICATION**

This Notice is provided pursuant to § 10-624 of the State Government Article of the Maryland Code. The personal information requested on this form is intended to be used in processing your application. Failure to provide the information requested may result in your application not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment ("MDE") is a public agency and subject to the Maryland Public Information Act. This form and the information provided on 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.

SIGNATURE

I certify and affirm under penalty of perjury that all of the information I am providing on this date is complete, true and accurate to the best of my knowledge. I am aware that submitting false, inaccurate or incomplete information may result in the denial or revocation of the permit or be subject to any other sanctions allowed under Maryland Law.

Signature of Applicant: 

Name (please print): Carol Watson

Title: Owner

Date: 08/18/2020

REVIEW BY COUNTY ENVIRONMENTAL HEALTH OR DESIGNATED AGENCY*This section is required only for NEW and MODIFIED applications - Not required for renewals**This section not to be completed by applicant*

Is project consistent with county water and sewer plan and local planning and zoning?

 Yes No (explain) DISCUSSED w/ MDE - JOHN BORISSignature of county representative: 

Title: REHS/RS LEHS II

Date: 09/18/2020

Wolf, Kevin

From: Wolf, Kevin
Sent: Friday, February 07, 2020 10:32 AM
To: Andy Capelle
Cc: Susan Thomas (sathomas@howardcountymd.gov)
Subject: Open Loop Nichols Drive
Attachments: [Untitled].pdf; Geothermal well setbacks_rev_3_18_19.docx; Open Loop Plan - Nichols Rd.pdf

Andy,

I have been speaking with John Boris this morning on this. You will need to follow the guidance document attached in this email which outlines what is required for an open-loop geothermal system. The first thing you should be addressing is the setback distances. Open loops are 100ft to septic components not 50ft. The revised site plan you submitted to us showing the bore closer uphill towards the existing well, is this the location you have drilled? Also, I do not have measurements of this. You will need to revise this plan to show setbacks distances to the well, house and septic components including the sewage disposal areas.

The next thing you will need is a design plan of the open loop system. Make sure you indicate in detail the supply well and return well (if standing column well, please indicate this in detail). This design plan must be submitted to us for review and ultimately make its way to MDE water supply program. Including in this will need to be a Groundwater Appropriations Permit (GAP) that the homeowner will need to complete. Please make sure you are explaining this to the homeowner as they are ones applying for the GAP and ultimately the responsible on if anything may happen.

As long as the setback distances have been met, you may proceed with completing the open loop well (i.e. case, grout, etc). Please update us as on the well construction including where you guys are with the well today.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045
(o) 410-313-2645
(f) 410-313-2648



kwolf@howardcountymd.gov

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MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230

410-537-3000 • 1-800-633-6101

Martin O'Malley
Governor

Shari T. Wilson
Secretary

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Deputy Secretary

MEMORANDUM

TO: All Environmental Health Directors
Regional Consultants

FROM: John A. Boris, Jr., R.S.
Geologist
Wastewater Permits Program

RE: Open Loop Geothermal Wells

DATE: October 13, 2010

Open loop geothermal (OLG's) wells are gaining popularity in the State. These types of wells have been installed for years throughout the State but seem to be more common outside of the Coastal Plain physiographic provinces. The most common types of OLG's in Maryland are the two well systems (any combination of a supply well and separate return well or trench) and the standing column well (a single well for supply and return). More varieties exist and you should become familiar with them. Counties are advised that the standing column approach does not require a well construction permit if the well is already constructed and that they should immediately begin discussion with the appropriate departments within their own jurisdiction to ensure that these permits come to their attention for review. As a result of recent inquiries about OLG's the Department offers the following guidance to the Counties.

1. A Groundwater Appropriation Permit shall be submitted to the Department and approved prior to construction.
2. All water must be returned from the originating aquifer.
3. An engineered plan of the proposed return method from the designer shall be submitted to the Department for review.
4. All OLG's are required to obtain a General Discharge Permit.
5. All injection wells and drainfields are subject to the conditions set forth in the Federal U.I.C. regulations. The Department has the right to require a permit for any injection well or drainfield that may cause a detrimental impact to the environment.
6. All distance requirements must be met.

You are reminded that the design of the system does not fall under the prevue of the delegation agreements but the construction and return capacity does. Some jurisdictions may require a mechanical construction permit. If you have any questions in regards to this I can be reached via telephone at (410) 537-3678 or email at jboris@mde.state.md.us .

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 $2.5 \text{ E}(-08) \text{ cm/sec}$. 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.

DO NOT
DISCARD



HOWARD COUNTY HEALTH DEPARTMENT

Diane L. Matuszak, M.D., M.P.H., County Health Officer

January 24, 2001

Susan Dameron
Dameron and Graham Realtors, Inc.
1107 Spring Street
Silver Spring, MD 20910

RE: Buildable Status of Parcels
Tax Map 34, Parcels 114 and 216
Nichols Drive

Dear Mrs. Dameron:

In response to your request for confirmation of the approval status of the referenced parcels, percolation testing was conducted in December 1976 and April of 1979. The results from that testing do not appear to be suitable for a conventional trench septic system.

A deep clay layer throughout the soil profile to a depth of approximately 12 feet was observed along with a water table as shallow as 9 feet. Percolation test rates conducted at various depths throughout the soil profile were slower than 30 minutes per inch which effectively rules out a conventional trench septic system.

In addition, these parcels are less than 2 acres in size and within 2500 feet of a drinking water reservoir. A proposal to build a house on each of the existing parcels presents a conflict with COMAR 26.04.02.05K (Code of Maryland Regulations) which states that on-site sewage disposal systems cannot be installed on lots/parcels less than 2 acres in size that are within 2500 feet of a reservoir. Prior to consideration of a variance to this regulation, each lot must be approved for a non-conventional septic system. In addition, a condition of the variance, if granted, is that nitrogen pretreatment for each septic system must be installed. Given the test history and agency experience in the area, consideration should be given to a single dwelling occupying 2 parcels thus eliminating the requirements for a variance.

If you wish to proceed with a re-evaluation of these lots, it shall be necessary to submit an application for wet season percolation testing for a non-conventional septic system. If you wish to proceed, it is strongly encouraged, that you hire a professional engineer and/or an experienced consultant. Please advise potential buyers of these issues.

Respectfully,
Steven R. Krieg
Steven R. Krieg,
Registered Environmental Sanitarian
Well and Septic Program

SRK

cc: File ✓

GRADE

EACH BORE HOLE (TYP.)

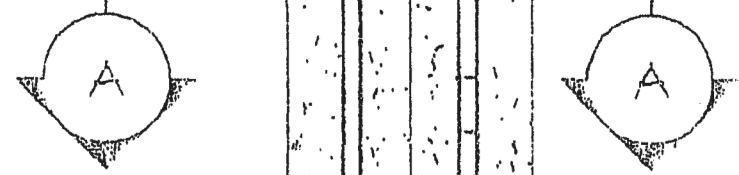
MINIMUM
HORIZONTAL BURY
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

GROUT ENTIRE ANNULAR
SPACE AND VERTICAL
U-TUBE WITH (BENTONITE)
GROUT.

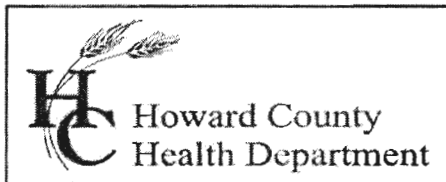
BORE DEPTH



DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TAPE
5 TO 10 FOOT SECTION OF

TYPICAL VERTICAL U TUBE



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

September 9, 2004

Mr. Jay Prager
Program Manager
Groundwater Permits Division
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, Maryland 21230

RE: Variance to COMAR 26.01.02.04.J1

Dear Mr. Prager:

We are in receipt of a letter from Akinyemi Bamisaiye dated August 10, 2004 (copy enclosed) requesting a variance to the setback of a 25% slope of 25'.

This is to recommend that a **variance be granted** by the Maryland Department of the Environment with respect to COMAR 26.04.02.04K.

The proposal has a signed percolation test plat which, when originally signed on 00/00/2004, showed a septic easement, proposed well location, and a proposed house site location that required an off-site easement to a piece of adjoining land that has 25% slopes above the proposed sewage disposal area (SDA) as well as below the SDA. After consultation with Barry Glotfelty, R.S., Regional Sanitarian, it was concluded that the installation of a curtain drain would prevent any adverse conditions from occurring on the lot as a result of the potential adverse surficial flow.

Please ~~and~~ contact Mr. Robert Weber, R.S. or Mr. John A. Boris, Jr., R.S. if you have any further questions at (410) 313-2640.

Respectfully,

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

cc: Barry Glotfelty
John Boris

DO NOT
DISCARD



HOWARD COUNTY HEALTH DEPARTMENT

Diane L. Matuszak, M.D., M.P.H., County Health Officer

January 24, 2001

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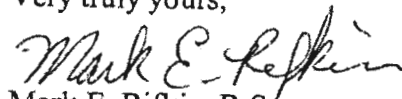
Respectfully,
Steven R. Krieg
Steven R. Krieg,
Registered Environmental Sanitarian
Well and Septic Program

SRK

cc: File ✓

The percolation certification plat should be submitted within 60 days to allow field verification if necessary. If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-2640.

Very truly yours,



Mark E. Rifkin, R.S.

Well and Septic Program

MR

Enclosures

cc: Surveys, Inc.

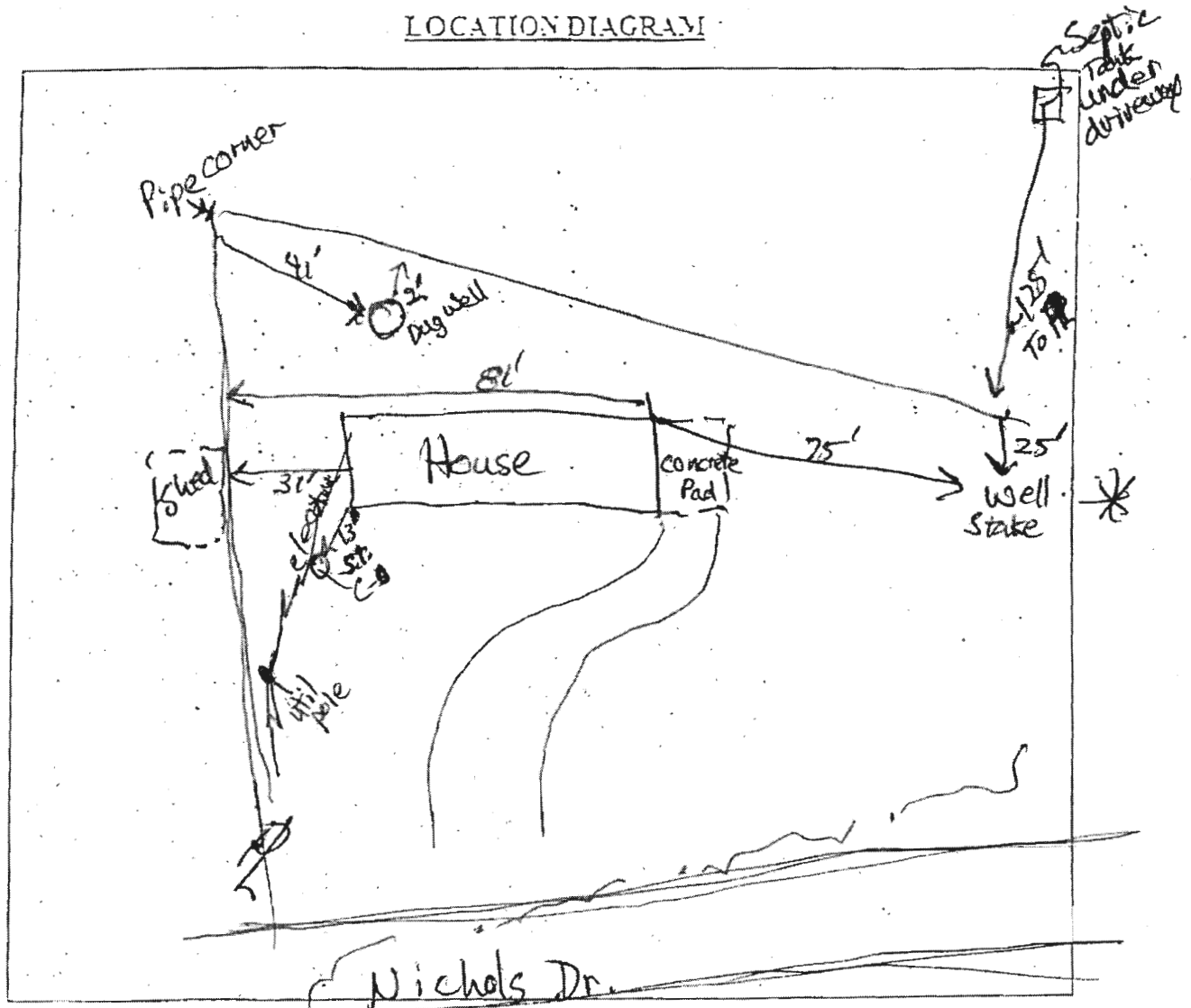
File

Robert Bricker
9/12/08

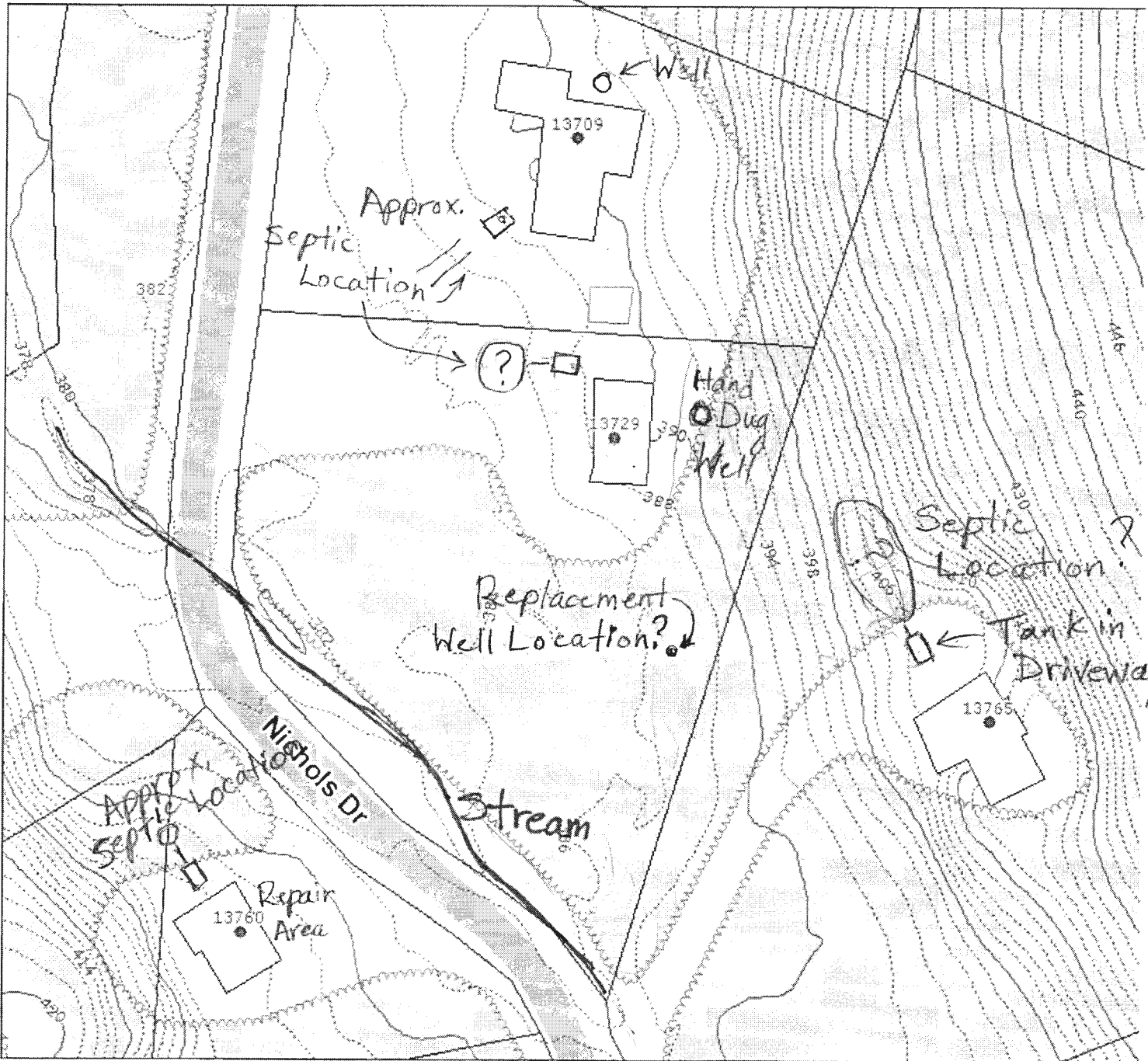
SITE INSPECTION SHEET

OWNER: Louis Farber PHONE #: _____
ADDRESS: 13729 Nichols Drive CONTRACTOR: _____
WELL TAG #: _____
SUBDIVISION: _____ LOT: _____ COUNTY #: _____
PROPOSAL: Emergency Replacement Well location

LOCATION DIAGRAM



COMMENTS: An agreed location for Replacement Well is shown. Well in this location is to be grouted to 60' or end of casing whichever is more shallow.
An alternative location is 75' further from the house in same direction.
Robert Bricker



9/8/08

(BB)

Keep With File