

B 1 28654

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 555378

STATE PERMIT NUMBER

HO-14-0197 fill in this form completely

Date Received (APA) 12-9-14

OWNER INFORMATION

BORCHERS MECHANICA 16413 NEW HAMPSHIRE AVE SILVER SPRING, MD 20905

B 3

LOCATION OF WELL CCH

Howard COUNTY 23 SUBDIVISION SECTION 44 48 LOT 48 50 Clarksville NEAREST TOWN

DRILLER INFORMATION

George F. Easterday M WD 040 L. Franklin Easterday, Inc. 9265 Brown Church Rd., Mt. Airy, Md. 21771

B 4

SOURCES OF DRILLING WATER wells

13879 Brighton Dam Road ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) DISTANCE FROM ROAD ENTER FT OR MI TAX MAP: 34 BLK: 13 PARCEL 130

B 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 500 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) INDUSTRIAL, COMMERCIAL, DEWATERING PUBLIC WATER SUPPLY WELL TEST, OBSERVATION, MONITORING OPEN LOOP GEOTHERMAL CLOSED LOOP GEOTHERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME 13 COUNTY NO. A545069 STATE SIGNATURE INSERT S DATE ISSUED 1/14/15 CO SIGNATURE M. Way EXP. DATE 1/14/16

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVerse-ROTary Drive-POINT other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

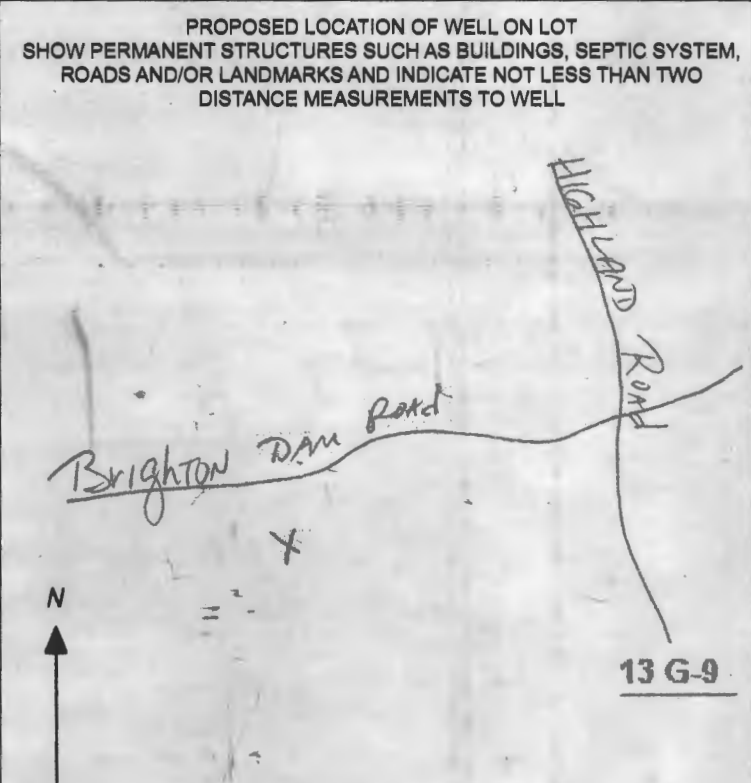
- THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER G PERMIT No. HO-14-0197

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



FIELD DATA SHEET
 COUNTY WELL YIELD TEST

Well Permit No. HA-40-14-0197 Election District _____
 Location of property (road) 13879 BRIGHTON DAM RD
 Subdivision _____ Lot _____ Block _____ Plat _____ Sec. _____
 Well Driller Easterday Owner Burchavs Mechanical

Depth of well 500 - 76PM
 Distance of measuring point (M.P.) above ground 2'
 Static water level (S.W.L.) below M.P. 412'

I. High rate pumping -- reservoir drawdown

Time pump started 8:40 Pumping rate 15 G.P.M
 Total time 20 min to reach pumping water level 125' ft. below M.P.

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

TIME	WATER LEVEL below M.P.	PUMPING RATE time to fill gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
9:00	125'	10 sec		6 G.P.M
9:15	125'	10 sec		6 G.P.M
9:30	125'	10 sec		6 G.P.M
9:45	125'	10 sec		6 G.P.M
10:00	126'	10 sec		6 G.P.M
10:15	126'	10 sec		6 G.P.M
10:30	126'	10 sec		6 G.P.M
10:45	126'	10 sec		6 G.P.M
11:00	126'	10 sec		6 G.P.M
11:15	126'	10 sec		6 G.P.M
11:30	127'	10 sec		6 G.P.M
11:45	127'	10 sec		6 G.P.M
12:00	127'	10 sec		6 G.P.M

**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 Plumbing 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: Borchers Mechanical Surs Inc Telephone #: 301-879-3040
Address: 16413 New Hampshire Ave.
Silver Spring, Md. 20905

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

License # and name of individual responsible for the field installation:
Name (Print): Robert A. Borchers License# 20586

***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. Unlicensed individuals may be reported to the appropriate licensing agency.**

Name of Property Owner: Deric Tomenko Telephone #: 240-432-4400
Subdivision: _____ Lot #: _____ Well Tag #: HO-14-0197
Site Address: 13891 Brighton Dam Rd.
Clarksville, Md. 21029

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>Goulds</u>	Make: <u>BIT</u>	Two piece watertight cap: <input checked="" type="checkbox"/>
Model #: <u>106520</u>	Model#: <u>P-100-55</u>	Screened, vented well cap: <input checked="" type="checkbox"/>
Pump Capacity <u>10</u> GPM	Depth: <u>42"</u> (36" min)	Cap secured to casing: <input checked="" type="checkbox"/>
Well Yield: <u>6</u> GPM	NSF/WSC approved: <u>yes</u>	Conduit min 18" B.G.: <input checked="" type="checkbox"/>
Depth of well encountered at time of pump installation: <u>500</u> (feet)		Conduit secured to well cap: <input checked="" type="checkbox"/>

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

Type: PE
PSI: 200 (160 psi min)
Depth of supply line: 42 (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: yes
Approximate length of sleeve: 120'
Sleeve caulked and sealed properly: 3in PVC sleeve to din PE
Fenaco 3x2

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.

Robert A Borchers 7-26-17
Signature of company representative responsible for installation date

For Health Department Use Only – Not to be completed by Installer

Date Insp. Requested: 07/26/17 Date Insp. Approved: 07/26/17 Inspector: (B)

Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade	<input checked="" type="checkbox"/>	<u>42"</u>	<u>07/26/2017 (B)</u>
Two piece cap installed and attached to casing securely	<input checked="" type="checkbox"/>		
Elec. conduit extends at least 18" below grade/attached to cap properly	<input checked="" type="checkbox"/>	<u>32"</u>	<u>07/26/2017 (B)</u>
Safety rope not seen outside of well cap/casing	<input checked="" type="checkbox"/>		
Correct well tag attached properly and casing 8" above finished grade	<input checked="" type="checkbox"/>	<u>16"</u>	<u>07/26/2017 (B)</u>
Water supply line sleeved adequately at house connection	<input checked="" type="checkbox"/>	<u>Sleeve extends</u>	
Adequate grout observed below pitless adapter	<input checked="" type="checkbox"/>	<u>~ 30' to well casing</u>	

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – AUGUST 1, 2019

February 1, 2019

Homeowner
13891 Brighton Dam Road
Clarksville, MD 21029

RE: Tomenko Property
13891 Brighton Dam Road
Building Permit: B16000442
Well Permit: HO-14-0197

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 **7/7/2018**. Final approval of the well line connection to the dwelling was granted on **7/26/2017**. The well construction was completed on **3/4/2015**. Water samples were collected on **11/28/2018**.

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. 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-14-0197. 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.**

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



Bureau of Environmental Health
8930 Stanford Blvd | Columbia, MD 21045
410.313.2640 - Voice/Relay
410.313.2648 - Fax
1.866.313.6300 - Toll Free

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

In closing, please refer to our "Homeowner Fact Sheet" which illustrates a better understanding for your Onsite Sewage Disposal System. You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your septic system.

Approving Authority,

Kevin M. Wolf, L.E.H.S, R.S./REHS, Supervisor
Groundwater Management Section
Well & Septic Program

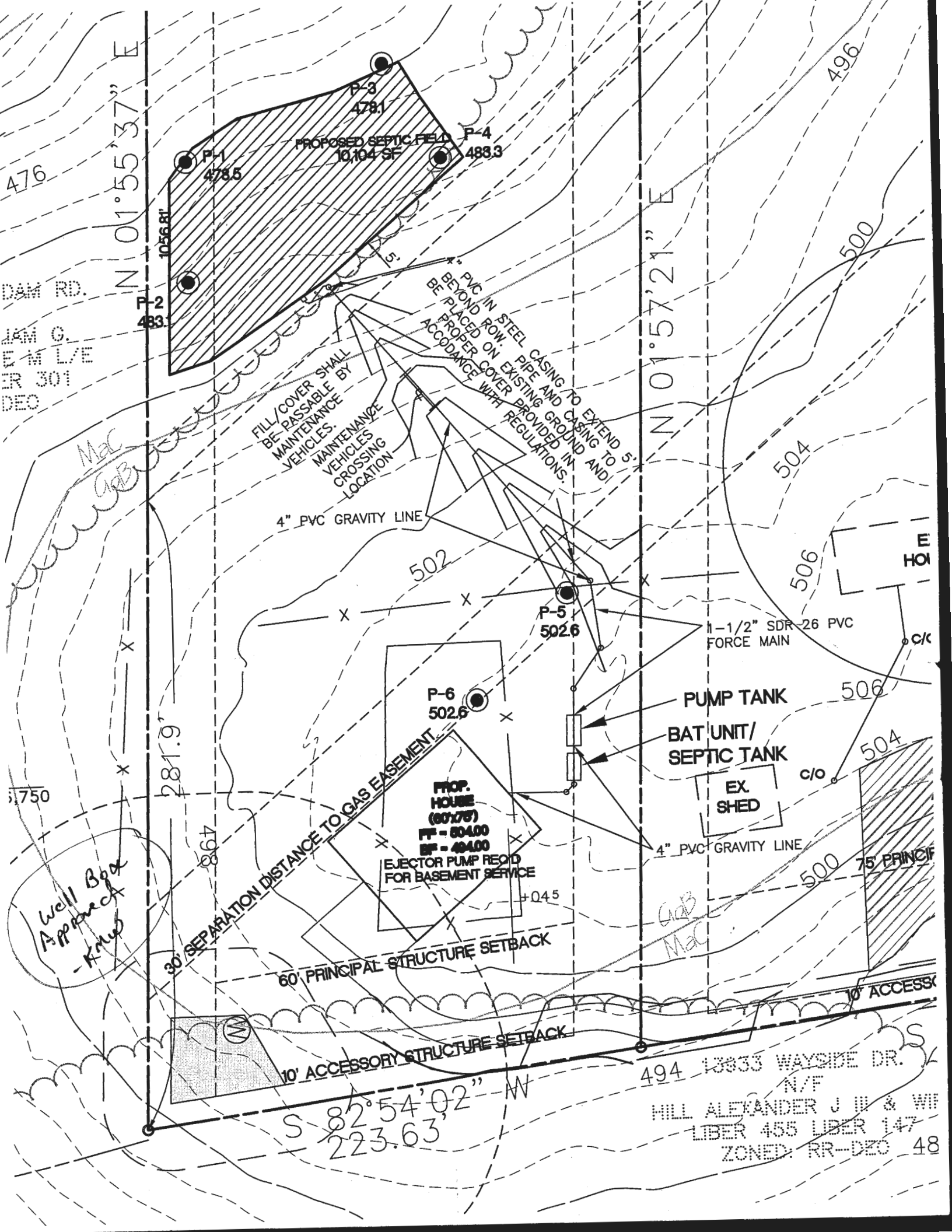
cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File

13879 Brighton Dam Rd.
3/4/15 grouting



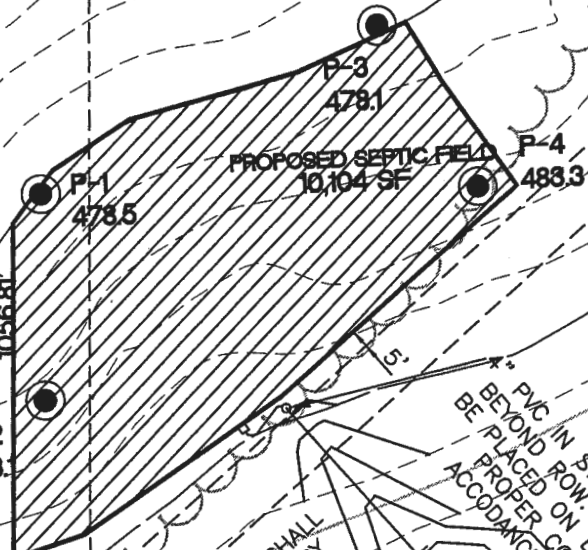
FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
3/4/15	Made a site visit to see grouting. Well already grouted and no one
	on site. Confirmed with Sara from Easterday that bentonite was used
	in grouting. (SC)



N 01°55'37" E
1056.81

N 01°57'21" E



FILL/COVER SHALL BE PASSABLE BY MAINTENANCE VEHICLES. MAINTENANCE VEHICLES CROSSING LOCATION

PVC IN STEEL CASING TO EXTEND 5' BEYOND ROW. PIPE AND CASING TO BE PLACED ON EXISTING GROUND AND IN ACCORDANCE WITH REGULATIONS.

4" PVC GRAVITY LINE



1-1/2" SDR-26 PVC FORCE MAIN

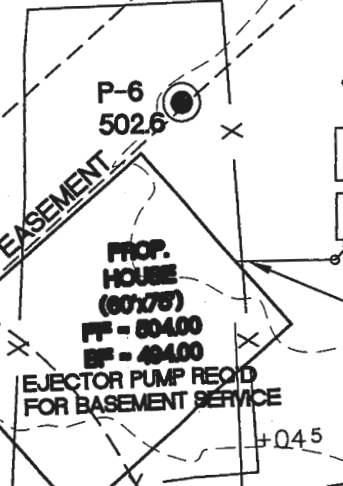


PUMP TANK

BAT UNIT/ SEPTIC TANK

EX. SHED

4" PVC GRAVITY LINE



30' SEPARATION DISTANCE TO GAS EASEMENT

60' PRINCIPAL STRUCTURE SETBACK

10' ACCESSORY STRUCTURE SETBACK

Well Box Approach - Know

3750

281.9

498

+0.45

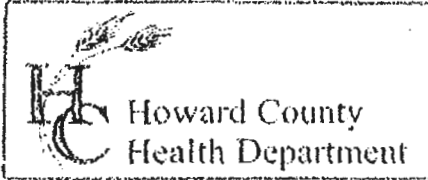
C/O

75' PRINCIPAL

S 82°54'02" W
223.63

494 13333 WAYSIDE DR.

HILL ALEXANDER J III & WIFE
LIBER 455 LIBER 147
ZONED: RR-DZC 48



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:

- The well site has been staked by Benchmark Eng,
(professional land surveyor or company employing professional land surveyors)
on 12-19-14 (date) and does not require a site inspection.
- 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.

Revised 6/10/03

13879 Brighton Dam Rd

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 #: 126924 Account #: 7428
Reference: Deric Tomenko Company: Borchers Mechanical
Location: 13891 Brighton Dam Road Requested By: Dawn Borchers
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 11/28/2018 1210 Site: Kitchen Sink Tap
Date/Time Rec'd: 11/28/2018 1535 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 7.6
Collected By: J. Yeager 6176JY Well #: HO-14-0197

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	11/29/2018 / 1000 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	11/29/2018 / 1000 / CRS
Nitrate	<1.0	mg/L	10	601	11/29/2018 / 0920 / RER
Turbidity	3.95	NTU	<10	SM20 2130B	11/29/2018 / 0900 / RER
Sand	NS	mg/L	5	Visual/Gravimetric	11/29/2018 / 0900 / RER

NOTES

- 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 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 pH & Chlorine level tested on site
- 8 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy
Building Permit # : B16000442

Date Reported: 11/29/2018

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 2.5×10^{-8} 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.

