

C 1 T3T62

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.

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

COUNTY NUMBER 13

ST/CO USE ONLY DATE RECEIVED MM DD YV

DATE WELL COMPLETED MM DD YV 11 22 2023

Depth of Well 22 480 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" Ho-20-0303

OWNER DONOR last name Rebecca TOWN WOODSTOCK SUBDIVISION SECTION LOT

WELL LOG Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows include Sand, Brown shale, Tan shale, Soft Gray Rock, Granite, Soft Green Rock, Granite, Med Gray Rock, Granite.

GRROUTING RECORD YES NO Y N 44 44

WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 16 NO. OF POUNDS 1200 GALLONS OF WATER 80 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 45 ft.

CASING RECORD casing types insert appropriate code below ST STEEL CO CONCRETE PL PLASTIC OT OTHER

MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch)! 60 61 63 64 66 67 70 Total depth of main casing (nearest foot) 45

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

SCREEN RECORD screen type or open hole insert appropriate code below ST STEEL BR BRASS PL PLASTIC HO OPEN HOLE OT OTHER

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED YES NO Y 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 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.

DRILLERS LOG NO. MWD 355 DRILLERS SIGNATURE UC NO. AW D113

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

DEPTH (nearest ft.) 45 480 E A B C 23 24 26 30 32 36 38 39 41 45 47 51 SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 56 60

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 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3 1 2 PUMPING TEST

HOURS PUMPED (nearest hour) 2 PUMPING RATE (gal. per min.) .40 METHOD USED TO MEASURE PUMPING RATE Water/Buret WATER LEVEL (distance from land surface) BEFORE PUMPING 10 ft. WHEN PUMPING 185 ft. TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other (describe below) J jet S submersible

PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

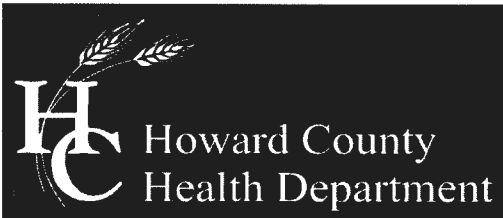
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) 5

PUMP HORSE POWER 3/4 PUMP COLUMN LENGTH (nearest ft.) 410 CASING HEIGHT (circle appropriate box and enter casing height) + above - below LAND SURFACE 1 (nearest foot)

LATITUDE 31.327314 LONGITUDE 76.873131 (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	<u>7725</u>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type <u>575046</u>	STATE PERMIT NUMBER <u>HO-20-0303</u> <small>70 fill in this form completely 79</small>
1 2 3 4 5 6	Date Received (APA) <u>9/12/23</u> <small>8 MM DD YY 13</small>		B 3 LOCATION OF WELL	
OWNER INFORMATION		8 COUNTY <u>Howard</u> 21		
15	Last Name	Owner	First Name	34
<u>DOANE</u>		<u>Rebecca</u>		
36	Street or RFD		23 SUBDIVISION	42
<u>1575 Woodstock Rd</u>				
57	Town	70 State	72 Zip	76
<u>Woodstock MD</u>		<u>21163</u>		
DRILLER INFORMATION		52 NEAREST TOWN <u>Woodstock</u> 71		
Driller's Name <u>Michael Barlow</u>		76 License No.	81 <u>MWD355</u>	
Firm Name <u>Barlow Well Drilling</u>				
Address <u>522 Underwood Lne 21014</u>				
Signature <u>[Signature]</u>		Date <u>9/12/23</u>		
B 2	WELL INFORMATION		B 4 SOURCES OF DRILLING WATER	
1	2	APPROX. PUMPING RATE (GAL. PER MIN.)	11 STREET ADDRESS <u>1575 Woodstock Rd</u> 30	
		<u>5</u>	ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)	
		8 <u>750</u> 12	<input type="checkbox"/> NORTH <input checked="" type="checkbox"/> WEST <input type="checkbox"/> EAST <input type="checkbox"/> SOUTH	
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)		14 <u>750</u> 20	34/100 37 DISTANCE FROM ROAD	
			ENTER FT OR MI <u>FT</u> 38 39	
			TAX MAP <u>10</u> BLK: <u>18</u> PARCEL <u>45</u>	
USE FOR WATER (CIRCLE APPROPRIATE BOX)		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL		
<input checked="" type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION		COUNTY NAME <u>Howard</u> COUNTY NO. <u>(13)</u>		
<input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)		STATE SIGNATURE _____ INSERT S → 41		
<input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING		DATE ISSUED <u>9/27/2023</u> / <u>[Signature]</u> <u>9/27/2024</u>		
<input type="checkbox"/> PUBLIC WATER SUPPLY WELL		<u>43</u> MM DD YY <u>48</u> CO SIGNATURE <u>[Signature]</u> <u>EXP. DATE</u>		
<input type="checkbox"/> TEST, OBSERVATION, MONITORING		<u>Don't 9/29/23</u> <u>Don't 10/11/23</u> <u>Don't</u>		
<input type="checkbox"/> OPEN LOOP GEOTHERMAL		PROPOSED LOCATION 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		
<input type="checkbox"/> CLOSED LOOP GEOTHERMAL				
APPROXIMATE DEPTH OF WELL <u>300</u> FEET				
APPROXIMATE DIAMETER OF WELL <u>6</u> INCH				
METHOD OF DRILLING (circle one)		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.		
<input type="checkbox"/> BORED (or Augered) <input type="checkbox"/> JETTED <input type="checkbox"/> Jetted & DRIVEN <input type="checkbox"/> AIR-ROTary <input checked="" type="checkbox"/> AIR-PERCussion <input type="checkbox"/> ROTARY (Hydraulic Rotary) <input type="checkbox"/> CABLE <input checked="" type="checkbox"/> REVERSE-ROTary <input type="checkbox"/> DRIVE-POINT other _____				
REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)		APPROX. PERMIT NUMBER _____ G _____ PERMIT No. <u>HO-20-0303</u> <small>70 71 72 73 74 75 76 77 78 79</small>		
<input type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input checked="" type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEIN AN EXISTING WELL				
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52		SPECIAL CONDITIONS <u>Hand dr. well to be sealed.</u>		
Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROX. PERMIT NUMBER _____ G _____ PERMIT No. <u>HO-20-0303</u> <small>70 71 72 73 74 75 76 77 78 79</small>				



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

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

MEMORANDUM

January 29, 2024

RE: **Replacement Well Sampling**

Rebecca Doane
1575 Woodstock Road
Woodstock MD 21163
Well Permit # HO-20-0303

Dear Rebecca Doane,

According to our records, your replacement well has been in use to the dwelling. We request that you contact the Community Hygiene Program at **(410) 313-1773** to schedule initial water sampling for the above referenced replacement well, as required by the Maryland Well Construction Regulation (COMAR 26.04.04). This sampling includes testing for bacteria, nitrates, turbidity, and sand.

It is preferred that the sample be collected from the primary indoor drinking tap, but if suitable scheduling is not possible, the sample may be taken from an outside tap to complete your sampling obligation. However, the potential for unsuccessful sample results increases when samples are collected from taps exposed to the outside environment.

If sampling has already been performed by an outside lab, please help us by forwarding the results of the samples to our office. If you have any further questions, you can call be at 410-313-1789. Otherwise, call Community Hygiene at 410-313-1773 to schedule or arrange for them to collect the subsequent water samples.

If you have any questions or would like to discuss these matters further, please call me at (410) 313-1789. Thank you for your attention to these important matters.

Respectfully,

A handwritten signature in black ink, appearing to read 'Shepsura Page', written over a light blue horizontal line.

Shepsura Page
Environmental Health Specialist
Howard County Health Department
Well and Septic Program

HOME LAND

ENVIRONMENTAL

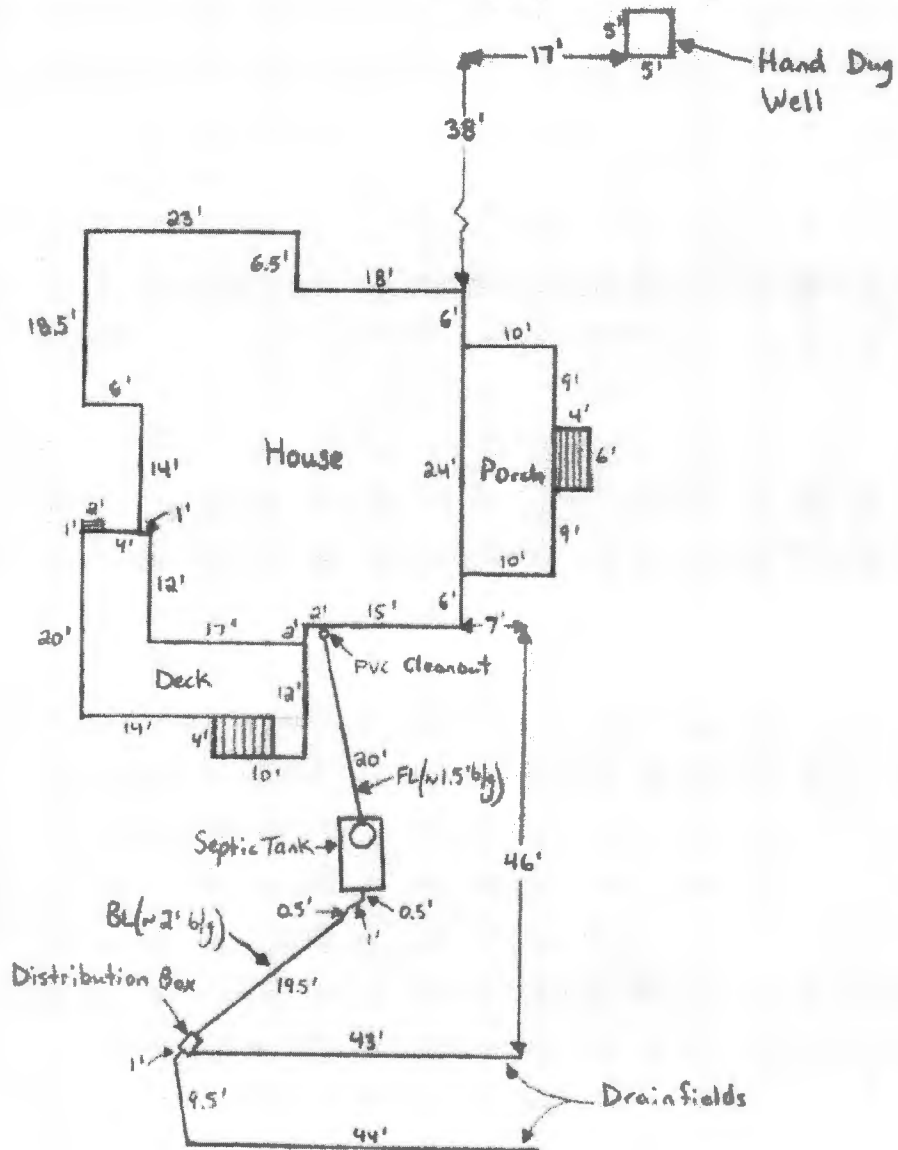
p: 443-995-5385 | info@homelandhealthyhomes.com | www.homelandhealthyhomes.com

Address: 1575 Woodstock Road Woodstock, MD 21163

Front of the House



All measurements are approximate distances.
Scale: 1" = 20'
 (' = Feet; " = Inches; FL = Front Line; BL = Back Line; b/g = Below Grade)



OK
SP
8/26/24

MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd. Baltimore, Maryland 21230 (410) 537-3784

WATER WELL HYDROFRACTURE REPORT

WELL TAG NUMBER 140-20-0303 DATE WORK PERFORMED (mm/dd/yyyy) 8-7-2024

WELL SITE ADDRESS 1575 WOODSTOCK RD - WOODSTOCK MD 21163

TAX MAP _____ BLK _____ PARCEL _____ LATITUDE 39.327394 LONGITUDE 76.873151

CASING DEPTH 45 FT CASING TYPE (circle) ST OR PVC DIAMETER 6"

WELL DEPTH 480 FT WATER LEVEL BEFORE FRAC 200 FT YIELD BEFORE FRAC .4 GPM

PACKER SETTINGS (circle) SINGLE or MULTIPLE SET DEPTH OF SHALLOWEST PACKER 120 FT

SOURCE OF WATER HILLS WATER

OBSERVATIONS

SET NUMBER	TOP ZONE (FT)	BOTTOM ZONE (FT)	MAX PRESSURE (PSI)	WATER VOLUME USED (GALLONS)
1 ✓	120	—	1100	1500
2				
3				
4				
5				

WATER LEVEL AFTER FRAC 2 FT

YIELD AFTER FRAC 1.4 GPM

NOTE: YIELD TEST PROCEDURES CAN BE FOUND UNDER COMAR 26.04.04.26.G.

REGULATIONS FOR HYDROFRACTURING OF WATER WELLS CAN BE FOUND IN COMAR 26.04.04.28. FAILURE TO FOLLOW REGULATORY PROCEDURES WILL CONSTITUTE RECEIVING A WRITTEN VIOLATION WHICH MAY RESULT IN PENALTIES DESCRIBED IN COMAR 26.04.04.38.

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Wayne Hasley
DRILLER SIGNATURE

M.S.D
LIC #

043

Page, Shepsura

From: Michael Isom <misom@mbwd.us>
Sent: Monday, August 26, 2024 10:14 AM
To: Page, Shepsura
Subject: RE: 1575 Woodstock Road- Revisions needed for WCR

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Thank you. In the future, I will note 75 lb bags on our report

Michael Isom
Senior Project Manager
Michael Barlow Well Drilling
410-838-6910

From: Page, Shepsura <spage@howardcountymd.gov>
Sent: Monday, August 26, 2024 9:59 AM
To: Michael Isom <misom@mbwd.us>
Subject: RE: 1575 Woodstock Road- Revisions needed for WCR

Thank you for the clarification, I will make comments on your completion report stating you use 75 lb bags and approve you report.
Have a great day.

Shepsura Page, EH Specialist
Well & Septic Program
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045
410-313-1789 (Office)
410-313-2648 (Fax)
www.hchealth.org
spage@howardcountymd.gov



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From: Michael Isom <misom@mbwd.us>
Sent: Monday, August 26, 2024 9:34 AM
To: Page, Shepsura <spage@howardcountymd.gov>
Subject: RE: 1575 Woodstock Road- Revisions needed for WCR

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

For safety purposes , we purchase cement in 75 lb bags instead of 94 lb bags so it requires less water to mix which is why we used 80 gallons of water (5 gal/bag) for the 16 bags (1200 lbs) we used. COMAR allows up to 6 gallons of water (we could use less if we wanted) per 94 lbs of cement, which is 1 gallon of water per 15.66 lbs of cement. At 1 gallon of water per 15 lbs of cement, we did not exceed the mix ratio.

Michael Isom
Senior Project Manager
Michael Barlow Well Drilling
410-838-6910

From: Page, Shepsura <spage@howardcountymd.gov>
Sent: Monday, August 26, 2024 8:15 AM
To: Michael Isom <misom@mbwd.us>
Subject: 1575 Woodstock Road- Revisions needed for WCR

Good Morning Mike,
I'm currently reviewing your well completion report for 1575 Woodstock Road. Your grout ratio exceeds our regulation of 6.0 gallons of water per sack. See attached scanned copy of the report. Is this the correct amount of cement and water used?

Thanks,

Shepsura Page, EH Specialist
Well & Septic Program
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045
410-313-1789 (Office)
410-313-2648 (Fax)
www.hchealth.org
spage@howardcountymd.gov



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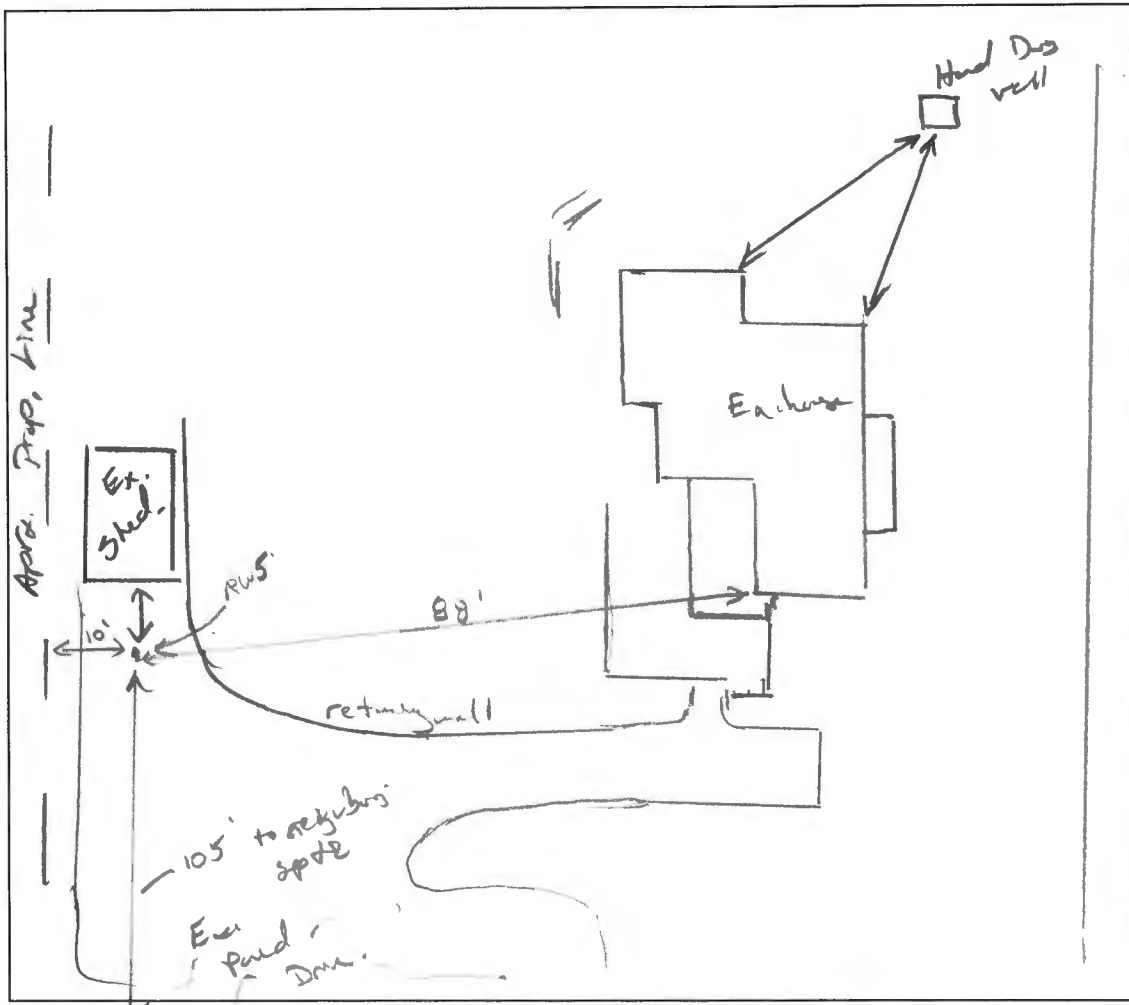
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SITE INSPECTION SHEET

OWNER: Andy Jacob PHONE #: _____
ADDRESS: 1575 Woodbine Road CONTRACTOR: Barlow well drilling
WELL TAG #: H0-20-0303
SUBDIVISION: N/A LOT: _____ COUNTY #: (13)
PROPOSAL: 2nd of H₂O

LOCATION DIAGRAM



COMMENTS: Property owner very low on budget.
Est. well hand dig well.

DATE: 9/20/2023 INSPECTOR: [Signature]

Wolf, Kevin

From: Andy, J. C. <jacob.c.andy@gmail.com>
Sent: Wednesday, September 27, 2023 12:26 PM
To: Wolf, Kevin
Subject: Understanding of Distancing

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

I understand that the 85 ft distance of the drilling site for the well from distribution box is not quite the 100 ft recommended but due to the emergency nature of our well going dry and the limited options of our property I understand and would still like to move forward.

FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
8/7/29	- Received Notification of well Fracked @
	1575 Woodstock Rd by Harley Well Drilling. (SP)