

B 1 72702

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type

STATE PERMIT NUMBER

Ho - 22 - 0132

fill in this form completely

OWNER INFORMATION: Pompey Sarah + Vincent, 8224 Reservoir Rd, Fulton MD 20759

LOCATION OF WELL: Howard County, Fulton, Section 1, Lot 2

DRILLER INFORMATION: Wesley Wolfe, Allied Well Drilling, PO Box 129, Annapolis Junction MD

SOURCES OF DRILLING WATER: Public, 8224 Reservoir Rd, Distance from road 11'

WELL INFORMATION: APPROX. PUMPING RATE 8 GAL. PER MIN., AVERAGE DAILY QUANTITY NEEDED 14 GAL. PER DAY

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL: Howard County, State Signature, Date Issued 5/6/24

USE FOR WATER: [C] CLOSED LOOP GEOTHERMAL, 2 loops

PROPOSED LOCATION OF WELL ON LOT: Diagram showing well location relative to garage and septic tank

APPROXIMATE DEPTH OF WELL 340 FEET, APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING: [30] AIR-ROTary, [37] CABLE

REPLACEMENT OR DEEPEINED WELLS: [S] THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

Not to be filled in by driller (MDE OR COUNTY USE ONLY): APPROP. PERMIT NUMBER G, PERMIT No. Ho - 22 - 0132

SPECIAL CONDITIONS: NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

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.

C1 57968

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)

COUNTY NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-22-0132

DATE RECEIVED

5-14-21

22 340 26 (TO NEAREST FOOT)

OWNER Tompey, Sarah + Vincent WELL SITE ADDRESS 8224 Reservoir Rd TOWN Fulton MD SUBDIVISION SECTION LOT 2

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, FEET (FROM, TO), check if water bearing. Includes entries for Sand + Clay, Red Soil, Grey Rock, Grey back water @ 285', and Grey Rock.

GROUTING RECORD. Includes fields for GROUTING RECORD (Y/N), TYPE OF GROUTING MATERIAL (Cement, Bentonite Clay), NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD. Includes fields for CASING RECORD (Steel, Concrete, Plastic, Other), MAIN CASING TYPE, Nominal diameter, Total depth.

OTHER CASING (if used). Includes fields for diameter, depth.

SCREEN RECORD. Includes fields for screen type or open hole, SCREEN RECORD (Steel, Brass, Bronze, Plastic, Open Hole, Other).

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES (Y) NO (N)

CIRCLE APPROPRIATE LETTER: A (Well abandoned and sealed), 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...

DRILLERS LIC. NO. 1 MWD 598 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)

DEPTH (nearest ft.) table with columns 1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16, 17-18, 19-20, 21-22, 23-24, 25-26, 27-28, 29-30, 31-32, 33-34, 35-36, 37-38, 39-40, 41-42, 43-44, 45-46, 47-48, 49-50, 51-52, 53-54, 55-56, 57-58, 59-60, 61-62, 63-64, 65-66, 67-68, 69-70.

GRAVEL PACK IF WELL DRILLED WENT 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. Includes fields for HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, BEFORE PUMPING, WHEN PUMPING, TYPE OF PUMP USED.

PUMP INSTALLED. Includes fields for DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED, CAPACITY, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT.

LATITUDE 39.14569 LONGITUDE 76.94170 (DEFAULT COORD. WGS 84)

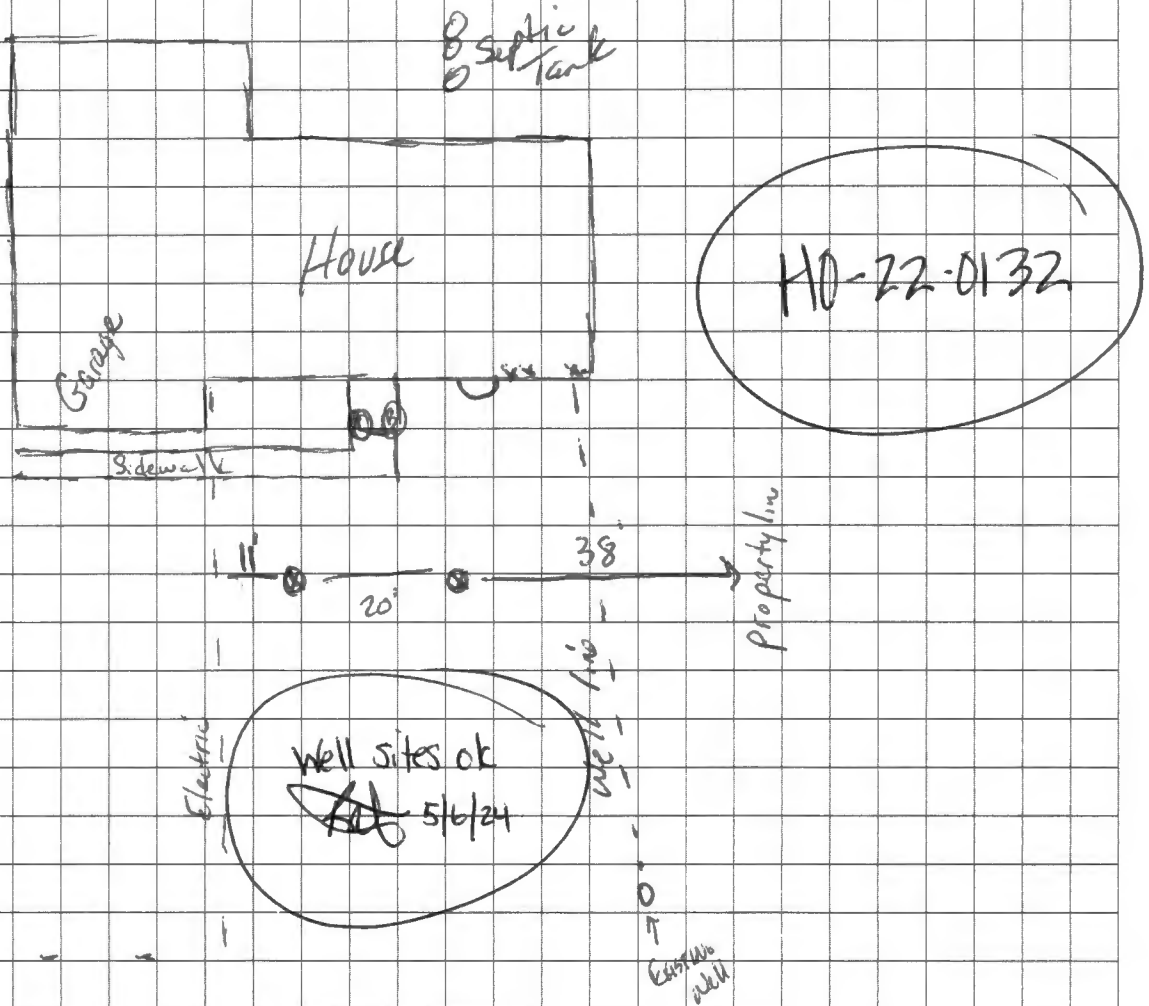
Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is being processed this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You agree the right to issue, amend, or correct this form. The Maryland 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.

A B  
26 29  
24 21



8224 Reservoir Rd  
Fulton Md  
2 wells @ 340' each  
closed loop geothermal

### SITE PLAN



Sediment Control Protocol: SILT FENCE

Distance From House: 25'

From Septic: 50'+ in rear of house

From Sewer: N/A

From Property Line: 38'+/-

From Street: 88'

Comments: Special instructions to bring Reg in. See Wes.

Person Completing Form: Wes Wolk

Trees Nearby: Yes, BUT OK

Utility Issues: NO

Mats Needed: Yes

Access For H/U: Yes

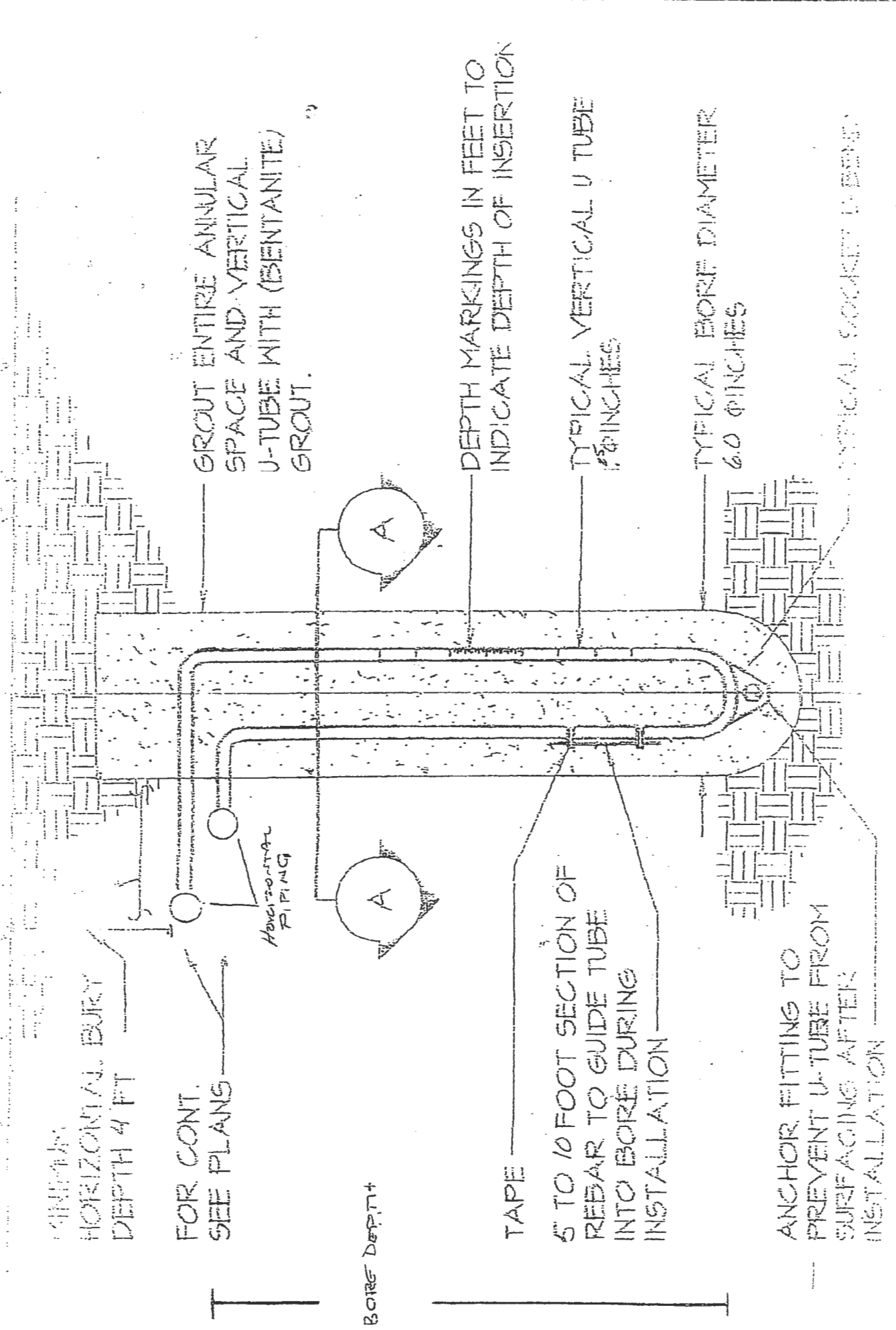
Neighboring Tags: HO-23-1591

## **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.

GRADE

EACH BORE HOLE (TYP.)



GRADE

HORIZONTAL BURY DEPTH 4 FT

FOR CONT. SEE PLANS

HORIZONTAL PIPING

BORE DEPTH

TAPE

5 TO 10 FOOT SECTION OF REBAR TO GUIDE TUBE INTO BORE DURING INSTALLATION

ANCHOR FITTING TO PREVENT U-TUBE FROM SURFACING AFTER INSTALLATION

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

DEPTH MARKINGS IN FEET TO INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE 1.5" PINCHES

TYPICAL BORE DIAMETER 6.0 PINCHES

TYPICAL SOCKET DEPTH