

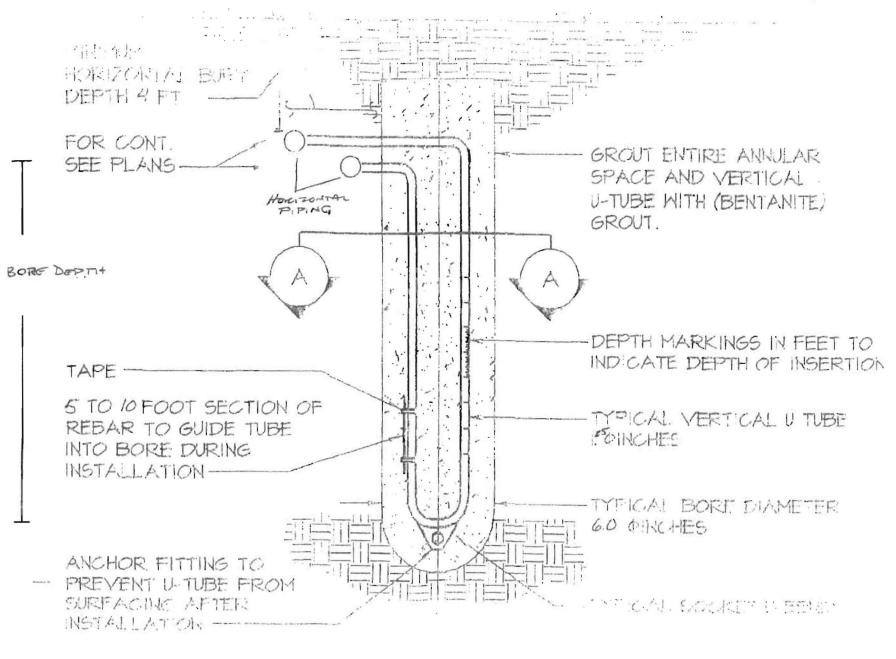
EMERGENCY/TEMP NO. IF ANY SEQUENCE NO. STATE PERMIT NUMBER 58 STATE OF MARYLAND 1 (MDE USE ONLY) APPLICATION FOR PERMIT TO DRILL WELL \$44 40-009 please type fill in this form completely Date Received (APA) LOCATION OF WELL B 3 MOS OWNER INFORMATION V. DD leon +18abel COUNTY 21 VIE 8 arc 0 Last Name 0 15 Owne First Name 34 23 SUBDIVISION 42 na C 36 Street or RFD 55 SECTION LOT 57 Town 70 State 72 Zip 76 71 NEAREST TOWN DRILLER INFORMATION 20 nr 10 M\ D Driller's Name B 4 License 00 SOURCES OF DRILLING WATER 0000 1 STREET ADDRESS Firm Name blic 30 2. ORTH ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) N Address 3. BE b Signature Date 34 37 B 2 WELL INFORMATION DISTANCE FROM ROAD APPROX. PUMPING RATE ENTER FT OR MI 38 39 (GAL. PER MIN.) 8 12 TAX MAP: 0022 BLK: 0015 PARCELO16C AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20 NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL USE FOR WATER (CIRCLE APPROPRIATE BOX) DOMESTIC POTABLE SUPPLY & RESIDENTIAL D IRRIGATION F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) COUNTY NO. COUNTY STATE INDUSTRIAL, COMMERCIAL, DEWATERING 1 22 INSERT S . P PUBLIC WATER SUPPLY WELL 41 DATE ISSUED T TEST, OBSERVATION, MONITORING OPEN LOOP GEOTHERMAL CO SIGNATURE DATE 0 DD CLOSED LOOP GEOTHERMAL C PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, APPROXIMATE DEPTH OF WELL J FEET ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL NEAREST APPROXIMATE DIAMETER OF WELL INCH METHOD OF DRILLING (circle one) tic D-Owell BORED (or Augered) JETTED **Jetted & DRIVEN** 428 30 AIR-ROTary AIR-PERcussion **ROTARY (Hydraulic Rotary)** 37 CABLE **REVerse-ROTary DRive-POINT** other gard OUSC **REPLACEMENT OR DEEPENED WELLS** (CIRCLE APPROPRIATE BOX) N THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE Y 30 ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED 39 S AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY XX FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEN AN EXISTING WELL DONO PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED N (IF AVAILABLE) 41 52 Not to be filled in by driller (MDE OR COUNTY USE ONLY) if wood (APPROP. PERMIT NUMBER 2 73 74 75 76 77 78 79 PERMIT No. bore Sutte SPECIAL CONDITIONS Graft 0 NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SH

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GRADE

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EACH BORE HOLE (TYP.)



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 E(-08) 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.