

QA MO 11/4/25

C 1	SEQUENCE NO. (MDE USE ONLY) 22768	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.
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		COUNTY NUMBER	

ST/GO USE ONLY DATE Received MM DD YY 03 17 25	DATE WELL COMPLETED MM DD YY 2-3-25	Depth of Well 22 400 26 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" 140-22-0178
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OWNER: Lee, Kevin + Gab, Poranne
 WELL SITE ADDRESS: 7829 Plumpp Highway first name TOWN: Ellicott City, MD
 SUBDIVISION: SECTION: LOT: 41

WELL LOG			
Not required for driven wells			
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING			
DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Top Soil	0	1	
Brn Clay	1	10	
Red Brn Clay	10	20	
Brn Sand	20	50	
Sandstone	50	52	
Brn Clay	52	70	
Brn Gray Rock	70	80	
Med Gray Rock	80	160	✓
Hard Gray Rock	160	405	

GROUTING RECORD yes no

WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N

TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT CM BENTONITE CLAY BC

NO. OF BAGS ⁴⁵ 36 NO. OF POUNDS ⁴⁵ 900

GALLONS OF WATER ⁴⁵ 900

DEPTH OF GROUT SEAL (to nearest foot)
 from ⁴⁸ 0 TOP ⁵² ft. to ⁵⁴ 400 BOTTOM ⁵⁸ ft.
 (enter 0 if from surface)

CASING RECORD

(casing types insert appropriate code below)

<input checked="" type="checkbox"/> ST STEEL	<input type="checkbox"/> CO CONCRETE
<input type="checkbox"/> PL PLASTIC	<input type="checkbox"/> OT OTHER

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)

60 61 63 64 66 70

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	to

SCREEN RECORD

screen type or open hole (insert appropriate code below)

<input checked="" type="checkbox"/> ST STEEL	<input type="checkbox"/> BR BRASS BRONZE	<input type="checkbox"/> HO OPEN HOLE
<input type="checkbox"/> PL PLASTIC	<input type="checkbox"/> OT OTHER	

C 2 DEPTH (nearest ft.)

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	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH)
 from to

C 3 PUMPING TEST

HOURS PUMPED (nearest hour) 8 9

PUMPING RATE (gal. per min.) 11 15

METHOD USED TO MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.

WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test)

<input checked="" type="checkbox"/> A air	<input type="checkbox"/> P piston	<input type="checkbox"/> T turbine
<input type="checkbox"/> C centrifugal	<input type="checkbox"/> R rotary	<input type="checkbox"/> O other (describe below)
<input type="checkbox"/> J jet	<input type="checkbox"/> 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 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 } LAND SURFACE (nearest foot)

- below }

49 50 51

LATITUDE 39.21501
 LONGITUDE 76.78249
 (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.

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 LIC. NO. 1 M W D 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)

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

01-219464

EMERGENCY/TEMP NO. IF ANY

11/4/25

B 1	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type	STATE PERMIT NUMBER HO - 22 - 0178 <small>fill in this form completely</small>
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OWNER INFORMATION

Date Received (APA) 01/24/25

8 MM DD YY 13

15 Last Name Lee, Kevin + Grab Corinna Owner First Name 34

36 Street or RFD 7828 Flagstone Court 55

57 Town Ellicott City MD 21043 70 State 72 Zip 76

LOCATION OF WELL

8 COUNTY Howard 21

23 SUBDIVISION Hockburn Township 42

SECTION 44 46 LOT 41 50

52 NEAREST TOWN Ellicott City 71

DRILLER INFORMATION

Driller's Name Wesley Wolfe M License No. W D 558 76 81

Firm Name Allied Drilling LLC

Address PO Box 129 Annapolis Junction MD 20702

Signature Wesley A Wolfe Date

SOURCES OF DRILLING WATER

1. ROBIE

2. 2/3/25 Dr. down 100'

3. on bench to 80' of casing BR @ 77' WBF @ 150'

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 300' 37

DISTANCE FROM ROAD ENTER FT DR MI 38 39

TAX MAP: 0031 BLK: _____ PARCEL 0793

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

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 2 loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard county 13

COUNTY NAME COUNTY NO.

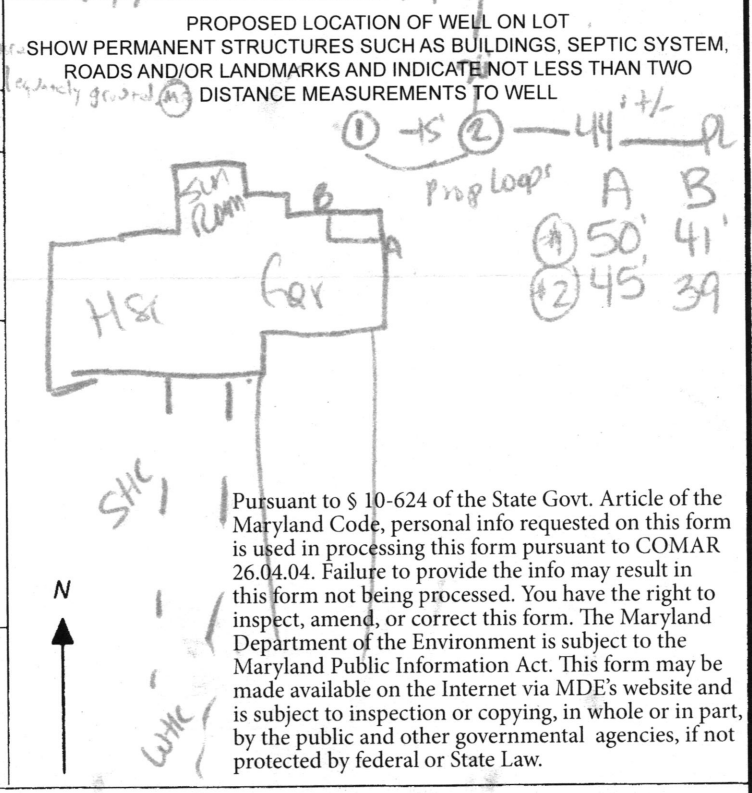
STATE SIGNATURE _____ INSERT S → 41

DATE ISSUED 1/29/2025 43 MM DD YY 48

CO SIGNATURE 1/29/2026 EXP. DATE

APPROXIMATE DEPTH OF WELL 400 FEET 24 28

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST



METHOD OF DRILLING (circle one)

BORED (or Augered) AIR-ROTary JETTED Jettied & DRIVEN

30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)

37 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

39 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 DEEPEAN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52

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

APPROP. PERMIT NUMBER _____ G _____

PERMIT No. HO - 22 - 0178 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS Notify Office of Drilling & Grout. Grout From Bottom to Top.

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.

		AB	
#1	34		
#2	45	39	



WELL DRILLING

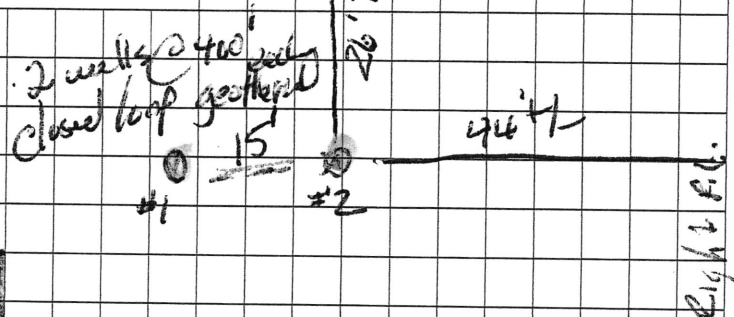
SITE PLAN

2829 Fleets Store Ct
 Ellicott City, Md

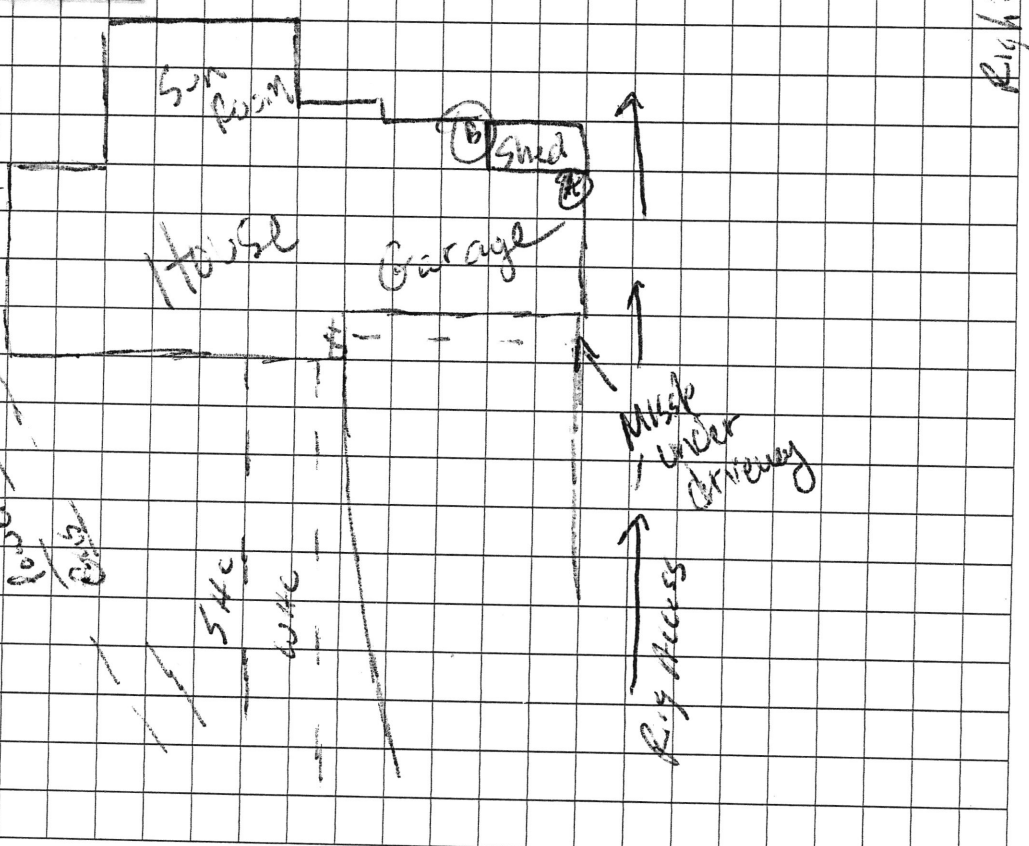
DO NOT REMOVE THIS TAG
 DEPARTMENT OF THE ENVIRONMENT
 WELL PERMIT NUMBER

HO-22-0178

INFORMATION - GIVE NUMBER AND WRITE
 1800 WASHINGTON BLVD
 BALTIMORE MARYLAND 21230



Well SAE
 Approved
 1/29/2025
 SP



Sediment Control Protocol: SILT Fence

Distance From House: 39'
 From Septic: N/A
 From Sewer: 50'+
 From Property Line: 26'+/- TO Rear
 From Street: 100'+

Trees Nearby: NO
 Utility Issues: Electric to shed for trenching
 Mats Needed: YES
 Access For H/U: YES
 Neighboring Tags: See Corps

Comments: Back Rig in from Road. Stay off of shared driveway

Person Completing Form: Wes Wolfe

EACH BORE HOLE (TYP.)

GRADE

MINIMUM

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

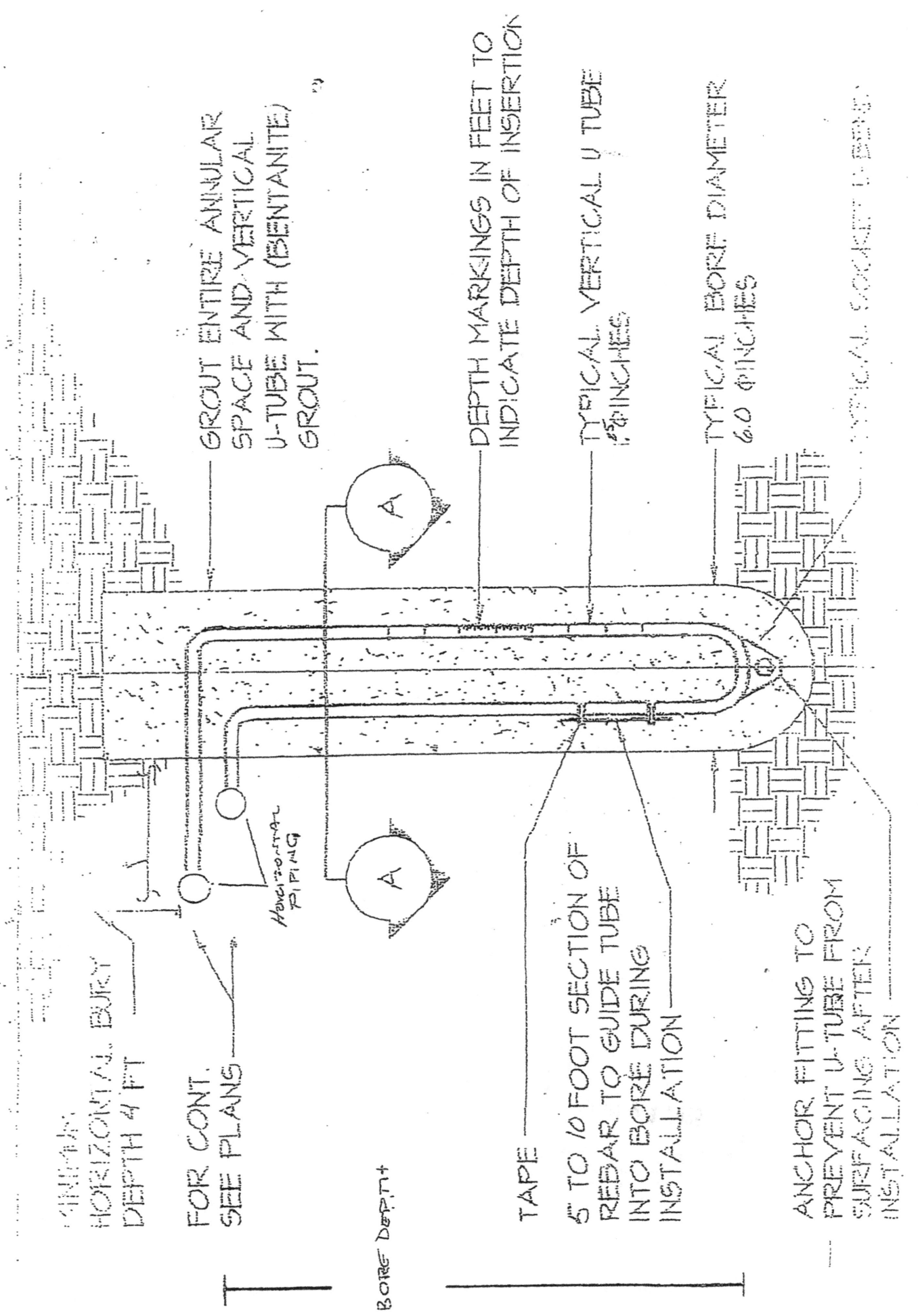
GROUT ENTIRE ANNULAR
SPACE AND VERTICAL
U-TUBE WITH (BENTONITE)
GROUT.

DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
PINCHES

TYPICAL BORE DIAMETER
6.0 PINCHES

TYPICAL SOCKET DEPTH



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.

