



HOWARD COUNTY HEALTH DEPARTMENT

59780

DATE
9/28/16

WS

Received From

PHONE #

Applied Environmental Services, Inc. 301-716-8310

For

Well permits - 12942 Brighton Ave (2)

CASH

CHECK

NO.

12951

Three hundred twenty Dollars

\$ 320.00

Received By

J King

C1 60566 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED DEPTH OF WELL

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER WELL SITE ADDRESS SUBDIVISION SECTION TOWN 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, FEET (FROM, TO), check if water bearing. Includes handwritten entries: Brown Clay, Brn Alca-Soft, Brn Rock, Gng Rock.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC]

CASING RECORD

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

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

SCREEN RECORD screen type or open hole (insert appropriate code below) [ST] [BR] [HO] [PL] [OT]

DEPTH (nearest ft.)

Table with columns: E, A, C, H, S, R, E, N. Rows for depth intervals and slot size.

DIAMETER OF SCREEN (NEAREST INCH) from to

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour) PUMPING RATE (gal. per min.) METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING TYPE OF PUMP USED (for test)

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or 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) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

NUMBER OF UNSUCCESSFUL WELLS: WELL HYDROFRACTURED

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...

DRILLERS LIC. NO. 1 M D 106 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)

LATITUDE 39.20524 LONGITUDE 76.96300 (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.

05-363438

B 1 SEQUENCE NO. (MDE USE ONLY) 66188 STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 5de388 STATE PERMIT NUMBER Ho-18-0116 fill in this form completely

OWNER INFORMATION
 Date Received (APA) 01/2/20
 8 MM DD YY 13
 15 Last Name Kurich Rajeev + Anuja Owner First Name 34
 26 Blackburn Court
 36 Street or RFD 55
Burtonsville MD 20826
 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
Howard
 8 COUNTY 21
 23 SUBDIVISION 42
 SECTION 44 46 LOT 48 50
Clarksville
 52 NEAREST TOWN 71

DRILLER INFORMATION
Marshal Arnette M SD 106
 Driller's Name 76 License No. 81
Allied Well Drilling
 Firm Name
P.O. Box 129 Annapolis Junction MD 20701
 Address
Marshal Arnette 09/18/19
 Signature Date

B 4 SOURCES OF DRILLING WATER
 1. Public
 2. 4/6/20
 3. Ground Risk Grant
30' well

12942 Brighton Dam Rd
 11 STREET ADDRESS 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH N WEST W EAST E SOUTH S
 34 37
 DISTANCE FROM ROAD
 ENTER FT OR MI 38 39
 TAX MAP 0034 BLK: _____ PARCEL 0269

B 2 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)
 D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 I INDUSTRIAL, COMMERCIAL, DEWATERING
 P PUBLIC WATER SUPPLY WELL
 T TEST, OBSERVATION, MONITORING
 O OPEN LOOP GEOTHERMAL
 C CLOSED LOOP GEOTHERMAL 8 loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard
 COUNTY NAME COUNTY NO. 21
 STATE SIGNATURE _____ INSERT S → 41
 DATE ISSUED 10/10/2019 10/10/2020
 43 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 319 420 FEET
 24 28

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

APPROXIMATE DIAMETER OF WELL 6 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)
 N THIS WELL WILL NOT REPLACE AN EXISTING WELL
 Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
 S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
 D THIS WELL WILL DEEPEM AN EXISTING WELL
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52

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.

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROX. PERMIT NUMBER _____ G _____
 PERMIT No. Ho-18-0116
 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS
 NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.
CALL IN DRILLING ACTIVITY SEE ATT MEMO

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.)

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

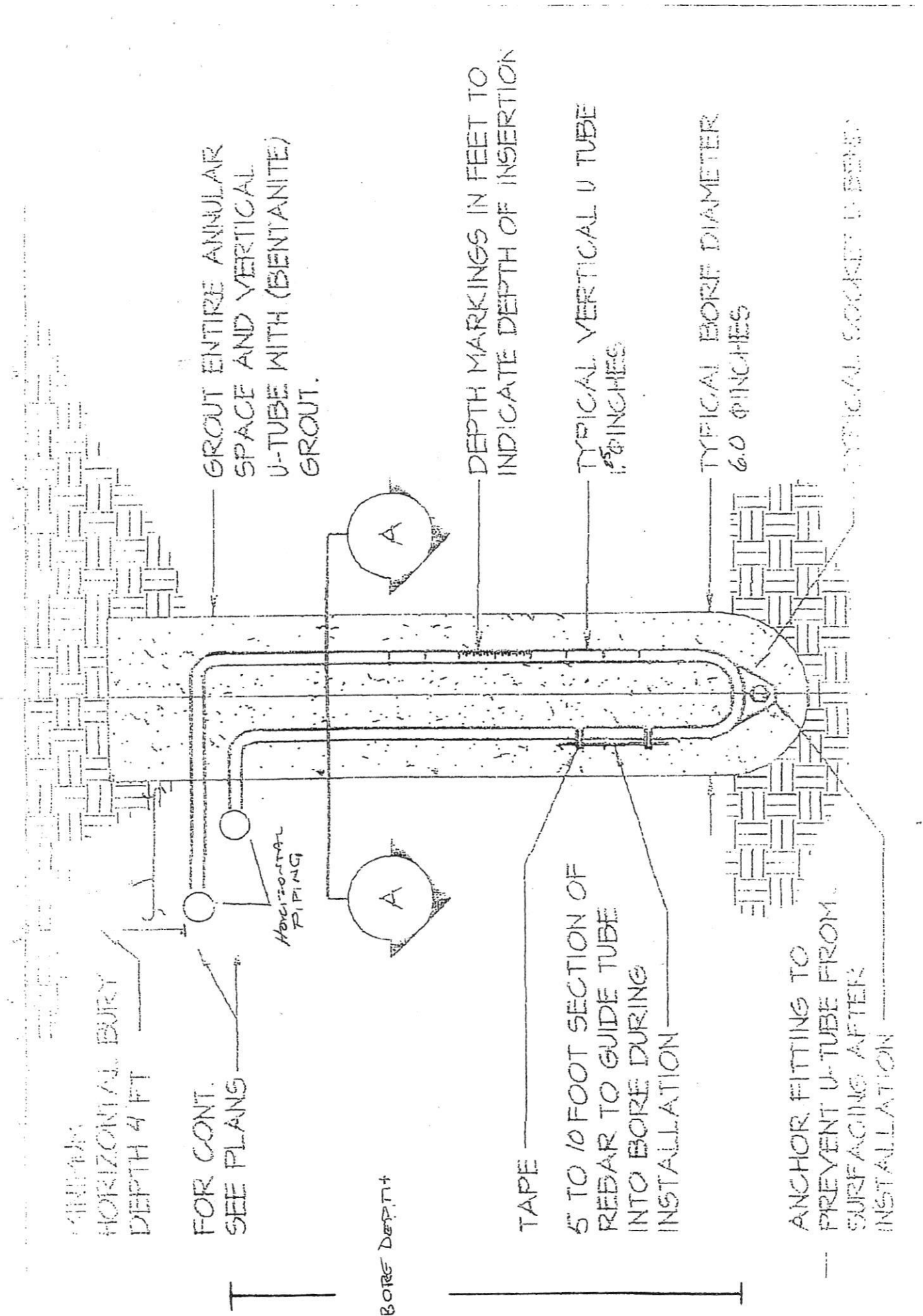
GROUT ENTIRE ANNULAR
SPACE AND VERTICAL
U-TUBE WITH (BENTONITE)
GROUT.

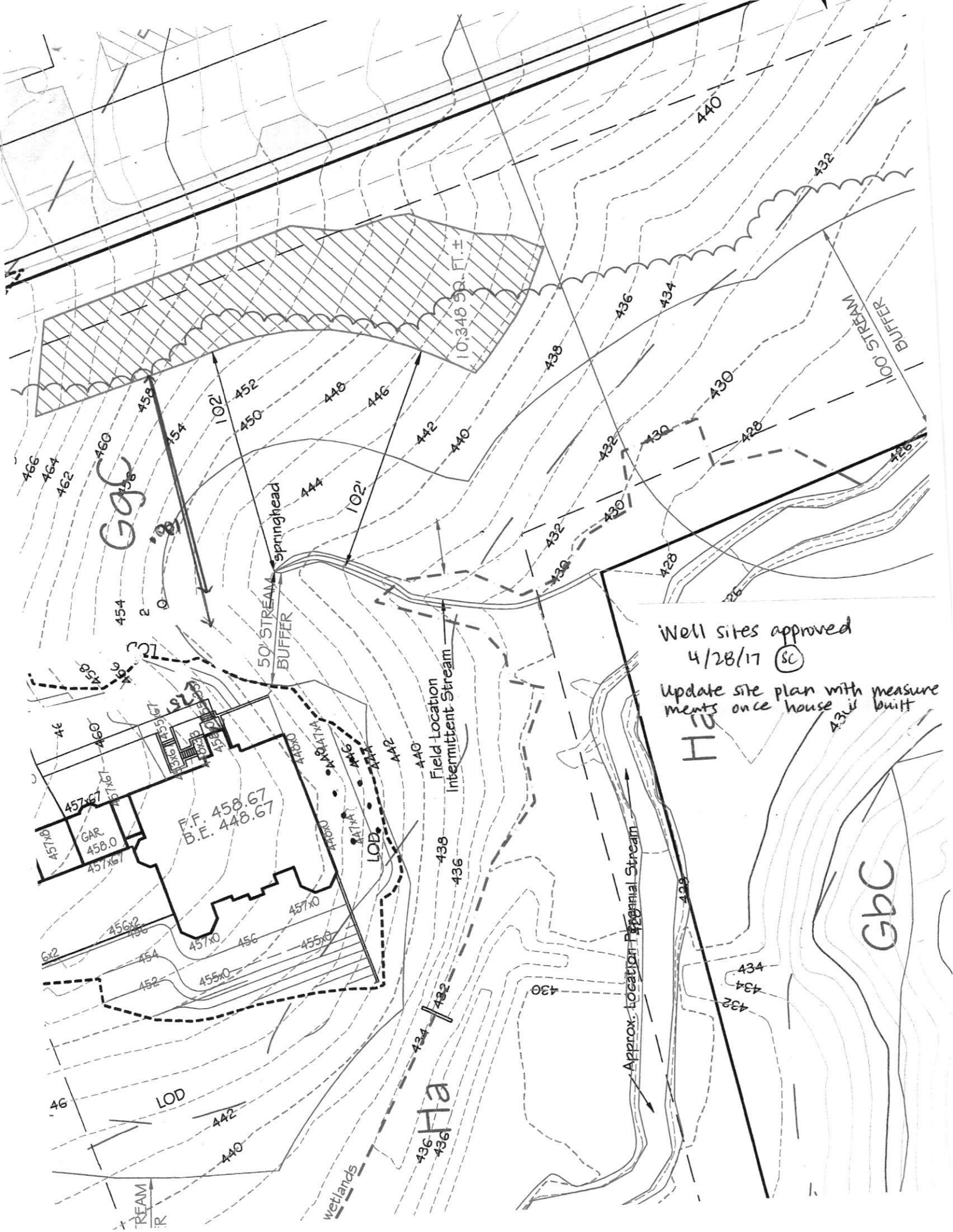
DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
1.5" PINCHES

TYPICAL BORE DIAMETER
6.0" PINCHES

TYPICAL SOCKET D BOND





GFC

Well sites approved
 4/28/17 (SC)
 Update site plan with measurements once house built

HU

GBC

HA

ROAD

LOD

Field Location Intermittent Stream

50' STREAM BUFFER

100' STREAM BUFFER

10,348 SQ. FT. ±

R.F. 458.67
 B.E. 448.67

GAR 458.0

Approx. location of Annual Stream

wetlands

46

46

466

464

462

458

456

454

102'

102'

102'

102'

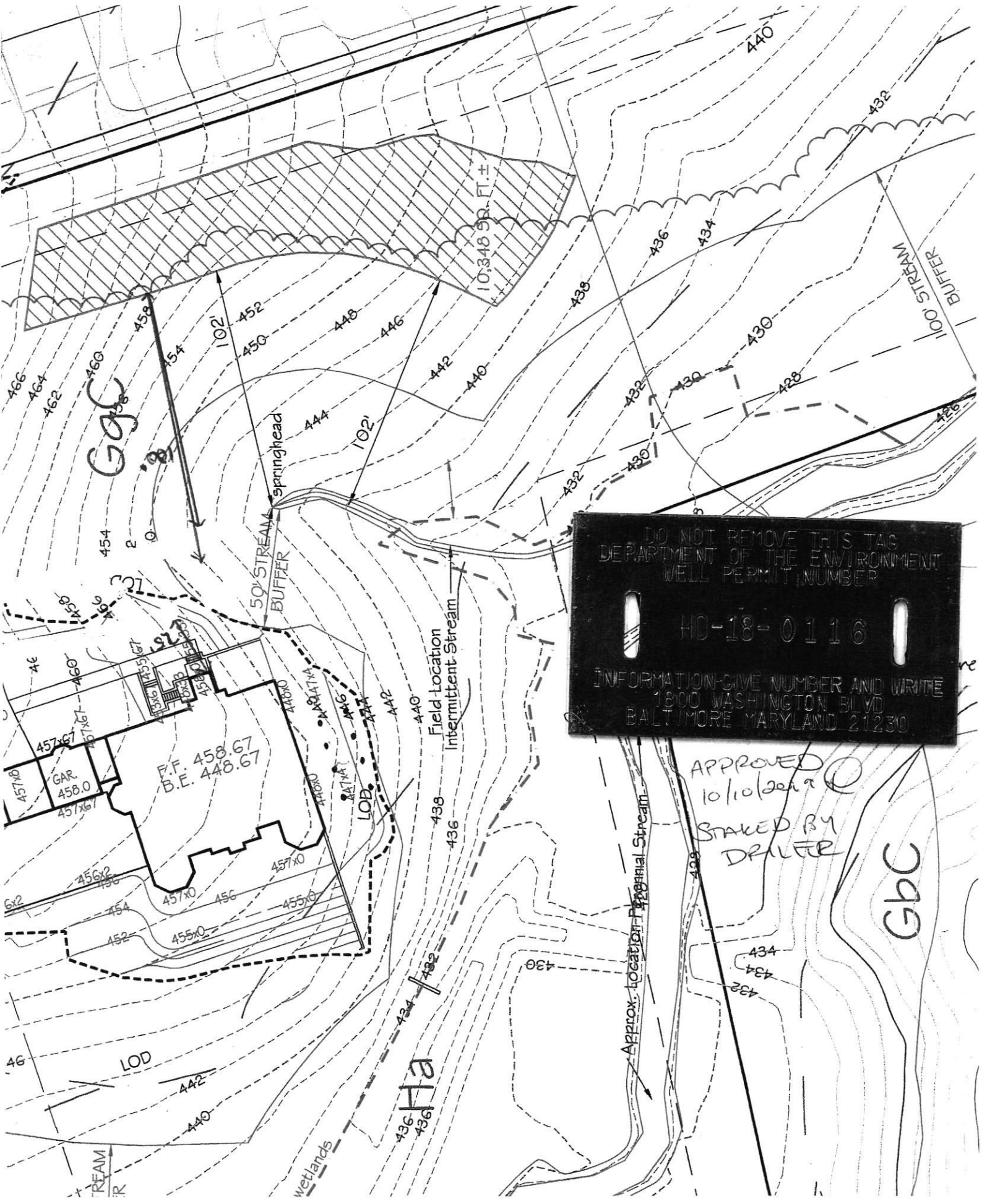
102'

102'

102'

102'

102'



DO NOT REMOVE THIS TAG
 DEPARTMENT OF THE ENVIRONMENT
 WELL PERMIT NUMBER
 HO-18-0116
 INFORMATION-GIVE NUMBER AND WRITE
 1800 WASHINGTON BLVD
 BALTIMORE MARYLAND 21230

APPROVED
 10/10/2018
 STAKED BY
 DRIVER

Gbc

SPECIAL CONDITIONS

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.

CALL IN DRILLING ACTIVITY



Cabahug, Joseph

From: Andy Capelle <acapelle@alliedwells.com>
Sent: Wednesday, October 9, 2019 2:10 PM
To: Cabahug, Joseph
Subject: 12492 Brighton Dam Rd Variance

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

Joseph,

Per our conversation, MDE does not require any setback for a geothermal well from a foundation. Allied and the homeowner are aware that Howard County requests a 20' set back from foundations but we would like to request a variance to place the wells 10' from the foundation.

Please let me know if you have any questions or need any additional information.

Andy

--

Andy Capelle
Vice President



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301-776-8374 fax
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Sent from my iPhone