



HOWARD COUNTY HEALTH DEPARTMENT

67937

DATE 8/2/20

Received From

PHONE #

Allied Environmental Services
301-776-8310

For

CASH

CHECK

NO.

23643

Well permit / 9502 bedrock
1200 Benson Branch Rd.
7151 Mink Hollow
Over hundred empty

Dollars

\$ 480.00

Received By

[Signature]

C1 60791

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"

DATE RECEIVED

9-10-20 APPROVED 12/21/2020

240

HD-20-0058

OWNER: Vandanter, Michael; WELL SITE ADDRESS: 4502 Jaclyn Ct; TOWN: Laurel MD; SUBDIVISION: ; SECTION: ; LOT: 22

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 FROM TO

check if water bearing

Table with 3 columns: Description, Feet (From/To), and Check if water bearing. Entries include Bin Clay (0-20), Gray clay (20-30), Gray Rock (30-240), and 2 loops @ 240'.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES (Y) NO (N)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT (CM) BENTONITE CLAY (BC)

NO. OF BAGS 98 NO. OF POUNDS 4500

GALLONS OF WATER

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 240 ft. (enter 0 if from surface)

CASING RECORD

STEEL (ST), CONCRETE (CO), PLASTIC (PL), OTHER (OT)

MAIN CASING TYPE, Nominal diameter top (main) casing, Total depth of main casing

OTHER CASING (if used) diameter, depth (feet)

SCREEN RECORD: STEEL (ST), BRASS (BR), OPEN HOLE (HO), PLASTIC (PL), OTHER (OT)

DEPTH (nearest ft.)

Table with 3 columns: Screen type, Depth (ft.), and Slot size. Rows 1-3.

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

TELESCOPE CASING, LOG INDICATOR, OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 8.9; PUMPING RATE (gal. per min.) 11-15; WATER LEVEL (distance from land surface) BEFORE PUMPING 17-20 ft., WHEN PUMPING 22-25 ft.; TYPE OF PUMP USED (for test) C centrifugal, R rotary, S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES; 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) 31-35; PUMP HORSE POWER 37-41; PUMP COLUMN LENGTH (nearest ft.) 43-47; CASING HEIGHT (circle appropriate box and enter casing height) 49 above LAND SURFACE

LATITUDE 39.13407, LONGITUDE 76.84240 (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.

NUMBER OF UNSUCCESSFUL WELLS: 2

WELL HYDROFRACTURED YES (Y) NO (N)

CIRCLE APPROPRIATE LETTER: 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 MS 106; DRILLERS SIGNATURE: [Signature]; LIC. NO. 1 D

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

B 1 68082

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 56737

STATE PERMIT NUMBER

HO - 20 - 0038 fill in this form completely

Date Received (APA) 08/12/20

OWNER INFORMATION

8 MM DD YY 13 15 Last Name Owner First Name 34 9502 Jacklyn Court 36 Street or RFD 55 Laurel MD 20723 57 Town 70 State 72 Zip 76

LOCATION OF WELL

B 3 Howard 8 COUNTY 21 Robinsons Promise 23 SUBDIVISION 42 SECTION 44 46 LOT 22 48 50 Laurel 52 NEAREST TOWN 71

DRILLER INFORMATION

Driller's Name Marshall Arnette M S D 106 76 License No. 81 Firm Name Allied Well Drilling Address PO Box 129 Annapolis Junction MD 20721 Signature Marshall Arnette Date 08/11/2020

SOURCES OF DRILLING WATER

1. Public 2. 3.

9502 Jacklyn Ct 11 STREET ADDRESS 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39

TAX MAP: 0047 BLK: PARCEL 0376

WELL INFORMATION

1 2 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

2 loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S 41 DATE ISSUED 09/02/20 43 MM 00 YY 48 CO SIGNATURE Susan Thomas 09/02/21 EXP. DATE

DOB: 9/10/20 DOB: 09/11/2020 Jacklyn Ct

APPROXIMATE DEPTH OF WELL 320 24 28 FEET

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN 30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary) 37 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

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

APPROP. PERMIT NUMBER G

PERMIT No. HO - 20 - 0038 70 71 72 73 74 75 76 77 78 79

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

9/10/20 - drilling 1st well - lots of water right when they started Q 220' will be 290' deep - sediment fence + sediment bag but still a lot of runoff - asked them to add another row of silt fencing to slow it down



9/10/20 - called Allied to request N a 3rd silt fence due to heavy rains and amount of sediment

Proposed loops Pursuant to § 10-24 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.

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

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

HO-20-0038

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

Landtech Associates Inc.

10260 Old Columbia Road Rivers Center-Suite J
Columbia, MD 21046

Phone: 410-290-8099 Fax: 410-290-8299

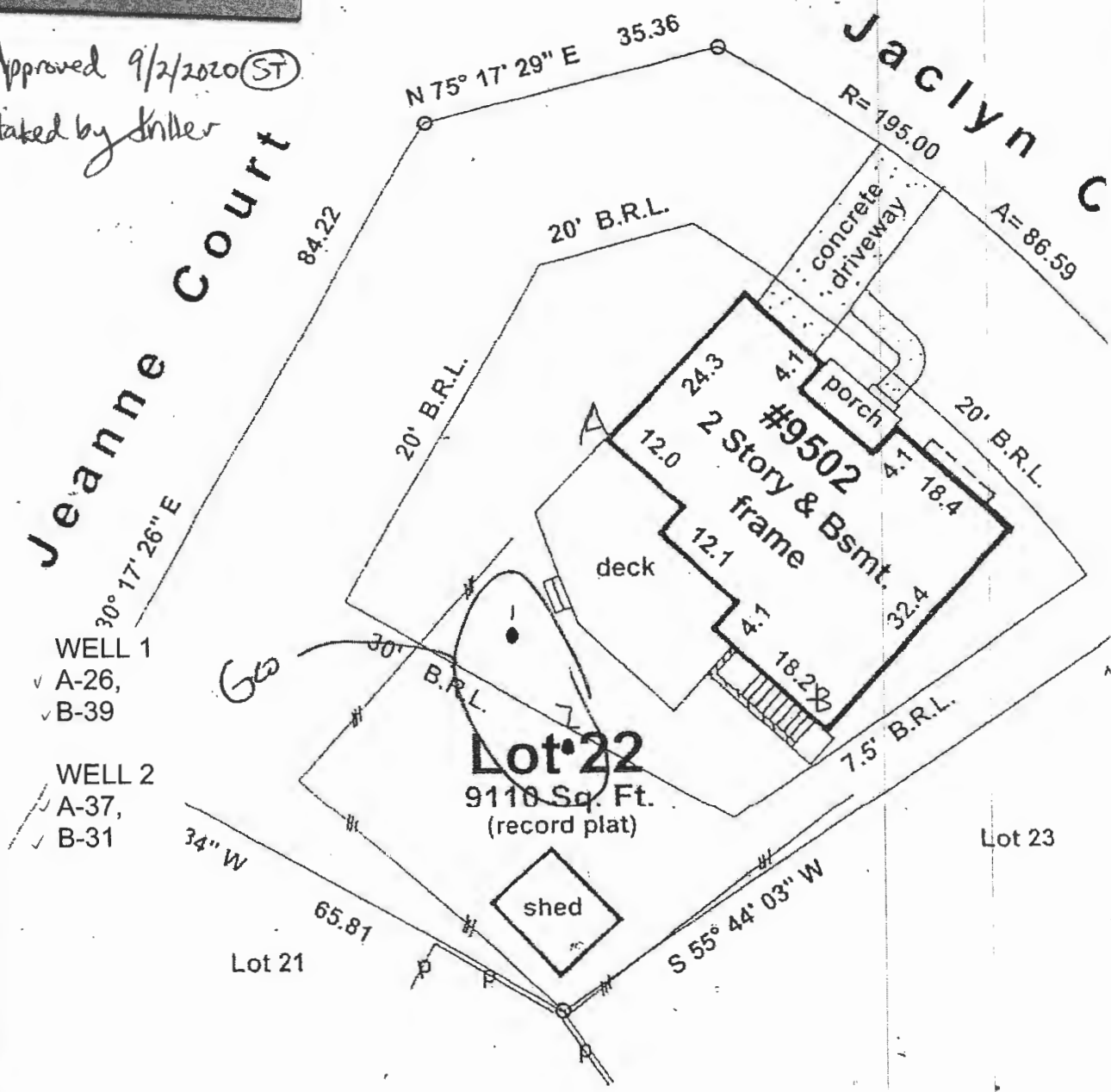
NOTE: NOT TO BE USED FOR ISSUANCE OF PERMITS

Scale: 1" = 20'

Approved 9/2/2020 (ST)
Stated by Miller

Jeanne Court

Jaclyn C



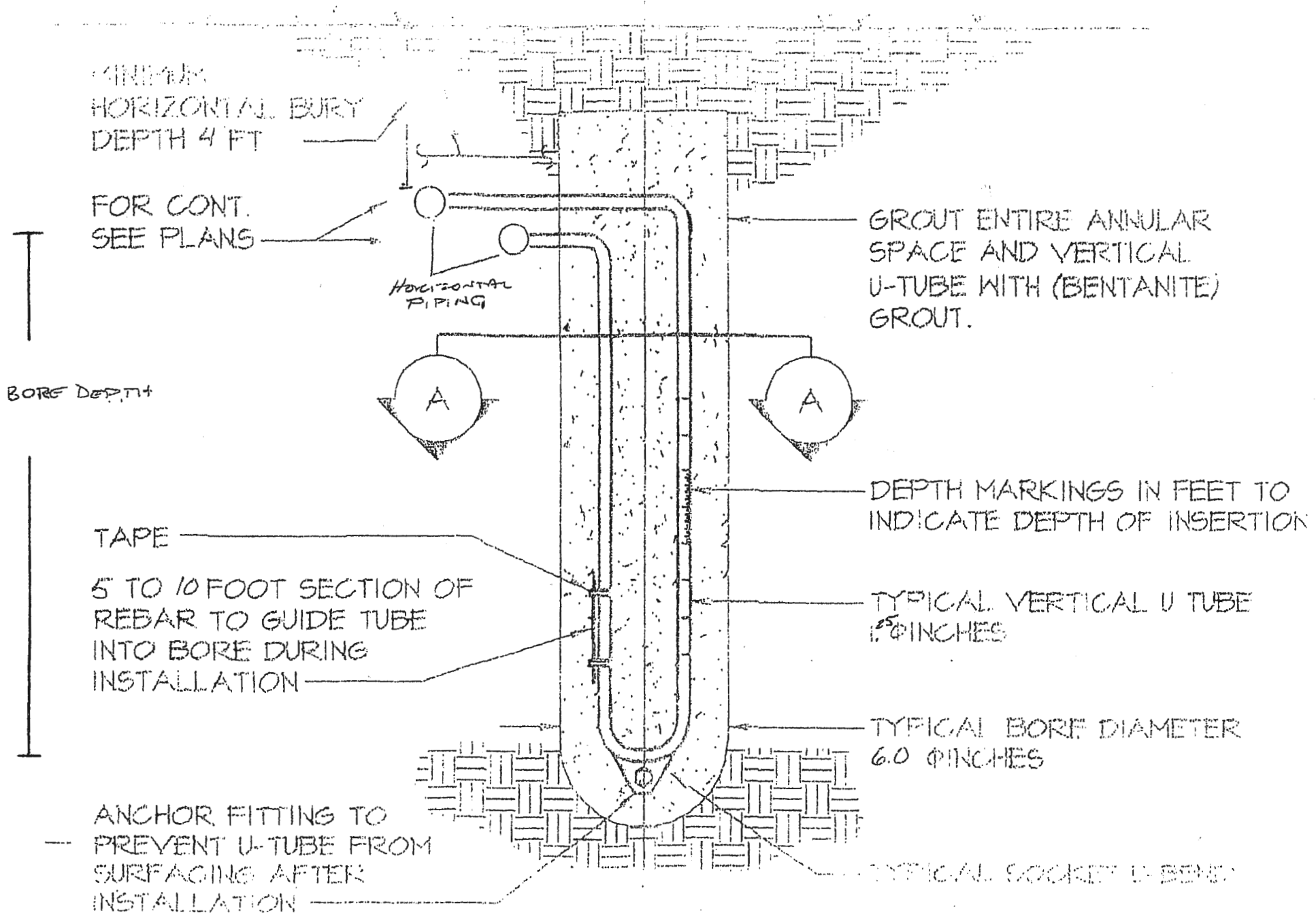
- WELL 1
 - ✓ A-26,
 - ✓ B-39
- WELL 2
 - ✓ A-37,
 - ✓ B-31



Location Survey of:	LOT: 22	BLOCK:
#9502 Jaclyn Court	PLAT BK:	PLAT#
Robinson's Promise	DATE: 4-30-12	SCALE:
	CASE NUMBER:	1204

GRADE

EACH BORE HOLE (TYP.)



MINIMUM
HORIZONTAL BURY
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

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

BORE DEPTH

TAPE

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

DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
1.5 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

TYPICAL SOCKET U-BEND

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.