

C1 59006

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL" #0-20-0097

OWNER

WELL SITE ADDRESS

SUBDIVISION

last name

first name

TOWN

LOT

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

Table with 3 columns: Description, Feet (From/To), and check if water bearing. Rows include Brn Sand, Sandstone, and Grey Rock.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT BENTONITE CLAY

NO. OF BAGS NO. OF POUNDS

GALLONS OF WATER

DEPTH OF GROUT SEAL (to nearest foot) from TOP to BOTTOM

CASING RECORD

casing types insert appropriate code below

ST STEEL CO CONCRETE PL PLASTIC OT OTHER

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

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

SCREEN RECORD

screen type or open hole insert appropriate code below

ST STEEL BR BRASS PL PLASTIC HO OPEN HOLE OT OTHER

Table with 2 columns: Depth (nearest ft.) and Diameter of Screen (NEAREST INCH)

C3

PUMPING TEST

HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, TYPE OF PUMP USED

PUMP INSTALLED

DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED PLACE, CAPACITY, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT, LAND SURFACE

LATITUDE 39.16645 LONGITUDE 76.90093 (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.

NUMBER OF UNSUCCESSFUL WELLS: WELL HYDROFRACTURED

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"

DRILLERS LIC. NO. M D 037 DRILLERS SIGNATURE

LIC. NO. 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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) TELESCOPE CASING LOG INDICATOR OTHER DATA

COUNTY

05-382523

EMERGENCY/TEMP NO. IF ANY

Tax: 1015120

B 1 SEQUENCE NO. (MDE USE ONLY) **68088** STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL **567904** please type

STATE PERMIT NUMBER **HO - 20 - 0047**

fill in this form completely

Date Received (APA) **070320**

OWNER INFORMATION

8 MM DD YY 13 **Embley Mark + Megan**

15 Last Name Owner First Name 34

36 **11201 Joan Marie Court**

Street or RFD 55

Clarksville MD 21029

57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

Howard COUNTY 21

Hallmark 23 SUBDIVISION 42

SECTION **44** 46 LOT **8** 48 50

Clarksville 52 NEAREST TOWN 71

DRILLER INFORMATION

Marshal Annette MS D 106

Driller's Name 76 License No. 81

Allied Well Drilling

Firm Name

PO Box 129 Annapolis Junction MD 20701

Address

Marshal Annette 09/02/2020

Signature Date

B 4 SOURCES OF DRILLING WATER

1. **Public**

2.

3.

11201 Joan Marie Ct STREET ADDRESS 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH WEST EAST SOUTH

34 **40'** 37

DISTANCE FROM ROAD

ENTER FT OR MI 38 39

TAX MAP: **0041** BLK: **-** PARCEL **0422**

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.)

1 2 **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)

22 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 NAME 13 COUNTY NO.

STATE SIGNATURE _____ INSERT S → 41

DATE ISSUED **9/24/20** **Ruth** **9/24/20**

43 MM DD YY 48 CO SIGNATURE EXP. DATE

DDN: 10/5/20 DOG: 10/5/20

APPROXIMATE DEPTH OF WELL **240** FEET

24 28

APPROXIMATE DIAMETER OF WELL **6** INCH

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)

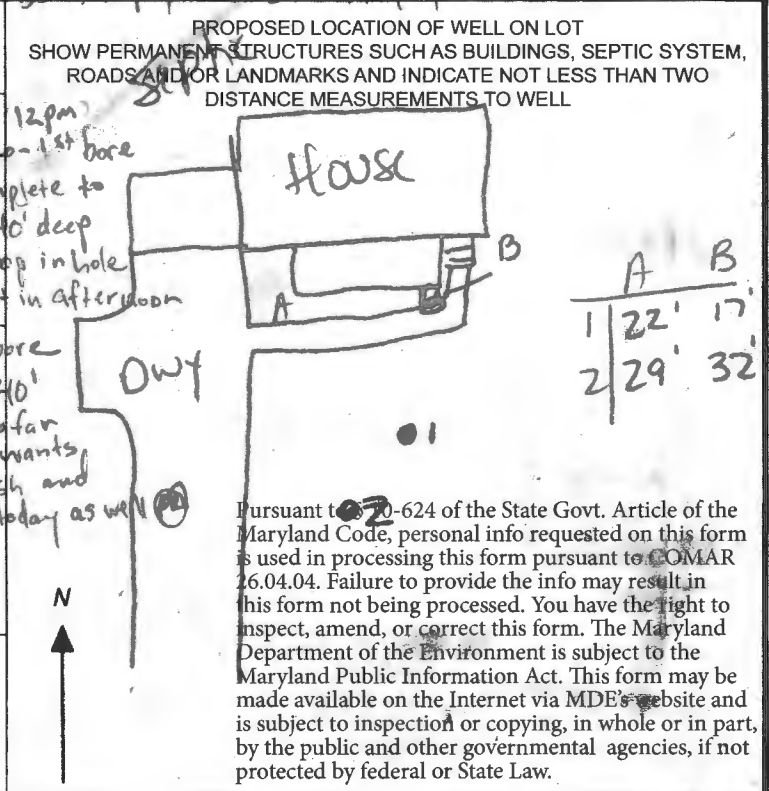
THIS WELL WILL NOT REPLACE AN EXISTING WELL

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 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 - 0047**

70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

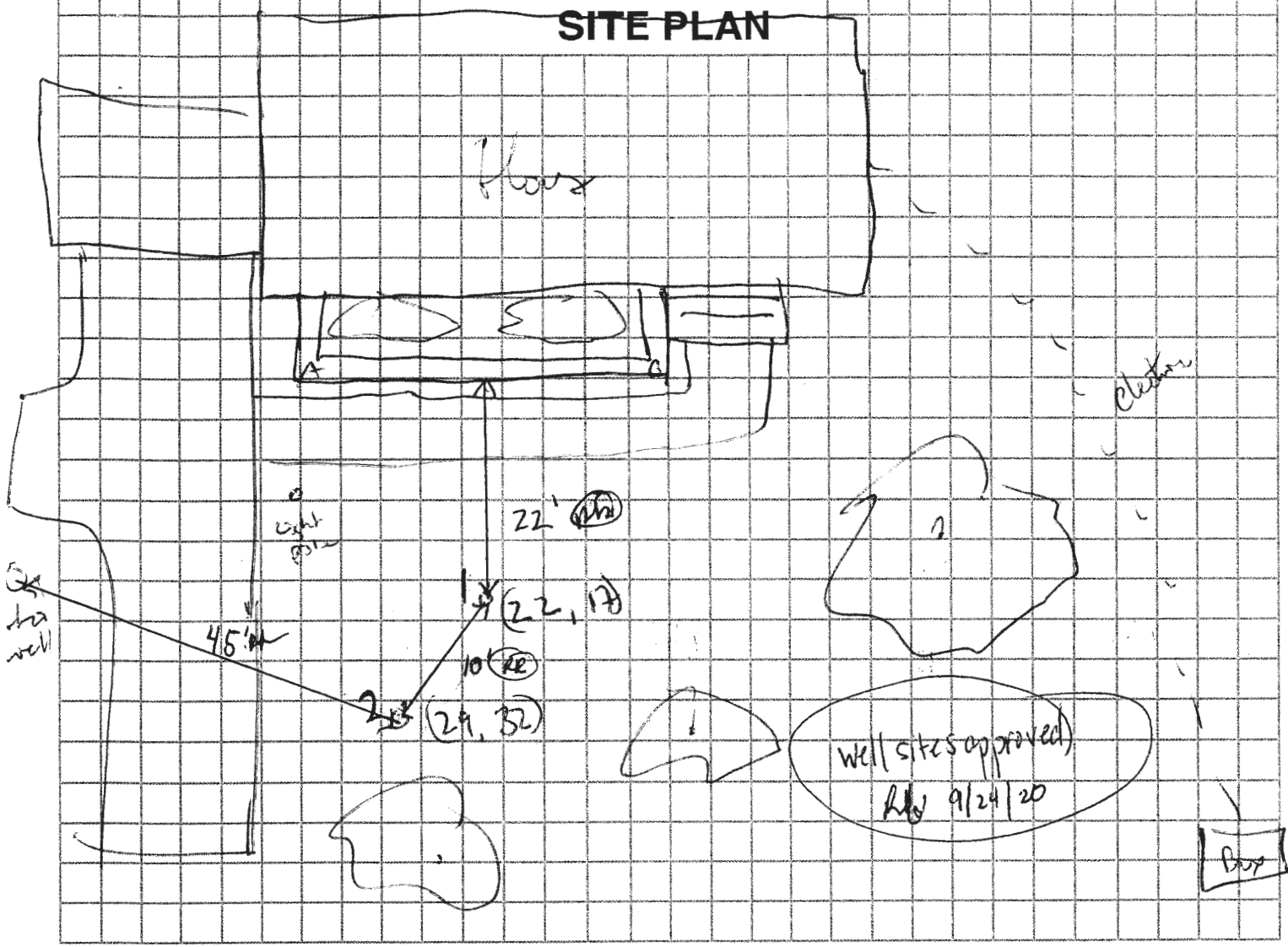
quit bottom to top.

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Septic



SITE PLAN



H0-20-0047

Sediment Control Protocol: _____

Distance From House: _____

From Septic: _____

From Sewer: _____

From Property Line: _____

From Street: _____

From Potable Well - 45'

Comments: _____

Trees Nearby: _____

Utility Issues: _____

Mats Needed: _____

Access For H/U: _____

Neighboring Tags: _____

Person Completing Form: _____

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 (BENTONITE)
GROUT.

BORE DEPTH

TAPE

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

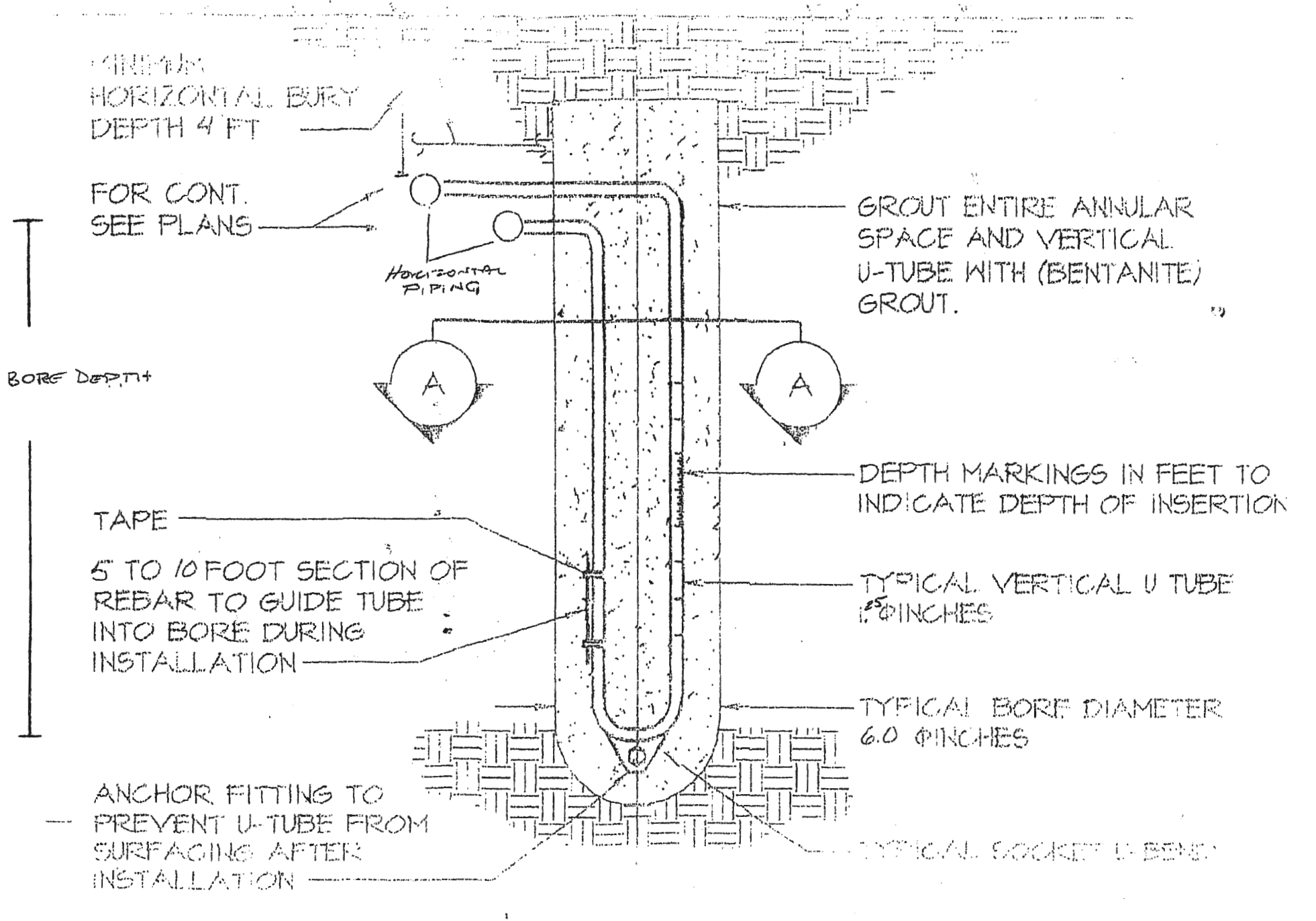
DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

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.



OSWALD DR

12202

400

5226

12300

SANNER RD

SANNER RD

SANNER RD

JOAN MARIE CT

SANNER RD

1160