

C1 19721

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 MM 10 DD 22 YY 12

MM 10 DD 05 YY 12

22 240 26 (TO NEAREST FOOT)

OK 5/4/15 sec

HO - 95 - 2286

OWNER PENDERGAST ANDREW WELL SITE ADDRESS 10221 DONLEIGH DRIVE TOWN COLUMBIA, MD SUBDIVISION SECTION 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. Rows: SOIL (0-5), Brown clay (5-15), Red clay (15-32), Brown shale (32-57), Gray Rock (57-240).

2 bores x 240'

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (Cement, Bentonite Clay) NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL

CASING RECORD

MAIN CASING TYPE, Nominal diameter, Total depth of main casing. Includes checkboxes for Steel, Concrete, Plastic, Other.

OTHER CASING (if used)

Table for other casing with columns for diameter and depth.

SCREEN RECORD

screen type or open hole (Steel, Brass, Bronze, Plastic, Open Hole, Other) DEPTH (nearest ft.)

C2

DEPTH (nearest ft.)

Table for screen record with columns for depth and diameter of screen.

C3

PUMPING TEST

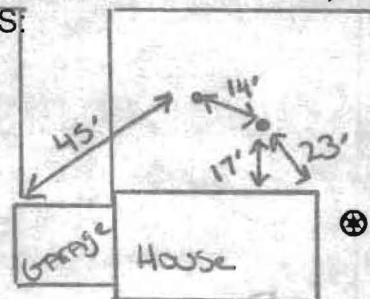
HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, TYPE OF PUMP USED.

PUMP INSTALLED

DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED, CAPACITY, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT.

LATITUDE 39.18436 LONGITUDE 76.86727 (DEFAULT COORD. WGS 84)

NOTES:



DRILLERS LIC. NO. 1 MWD 355 DRILLERS SIGNATURE LIC. NO. 1 AWD 902 SITE SUPERVISOR

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

B 1 11739 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 537258

STATE PERMIT NUMBER 40-95-2286 fill in this form completely

OWNER INFORMATION Date Received (APA) 04/16/12 Pendergast Andrew 10221 DonLeigh Drive Columbia MD 21046

LOCATION OF WELL Howard DonLeigh 5 Columbia

DRILLER INFORMATION Michael Bartow M W D 355 Bartow Well Drilling 522 Underwood Lane 21014 4-11-12

SOURCES OF DRILLING WATER 1. Well

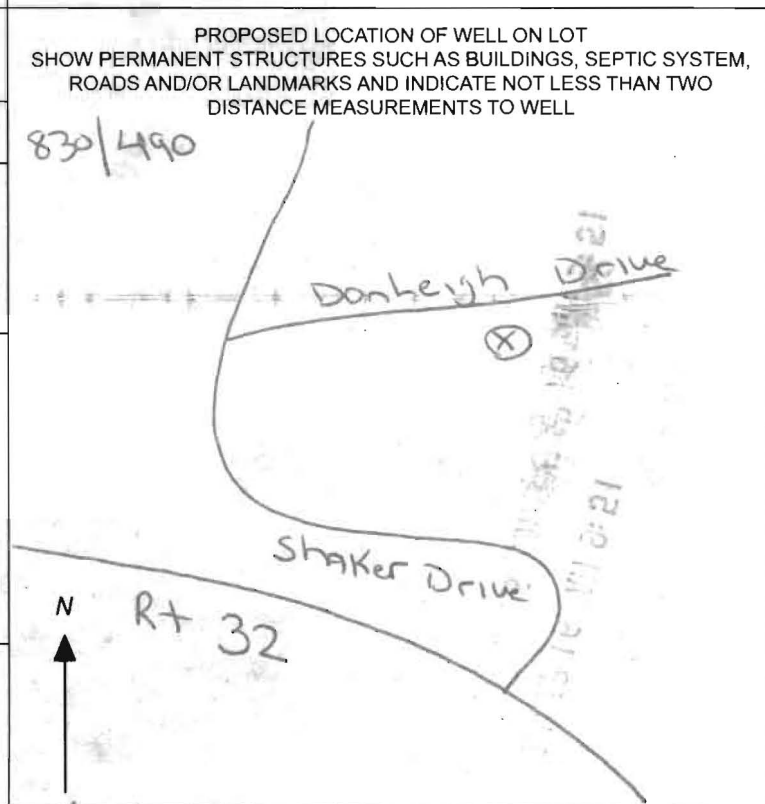
10221 DonLeigh Drive ON WHICH SIDE OF ROAD DISTANCE FROM ROAD 40 ENTER FT OR MI TAX MAP: 42 BLK: 1 PARCEL 192

WELL INFORMATION APPROX. PUMPING RATE 0 AVERAGE DAILY QUANTITY NEEDED 0

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard 13 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 4/26/12 CO SIGNATURE EXP. DATE 4/26/12

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 bores x 240'

APPROXIMATE DEPTH OF WELL 240 FEET APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST



METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary DRIVE-POINT other

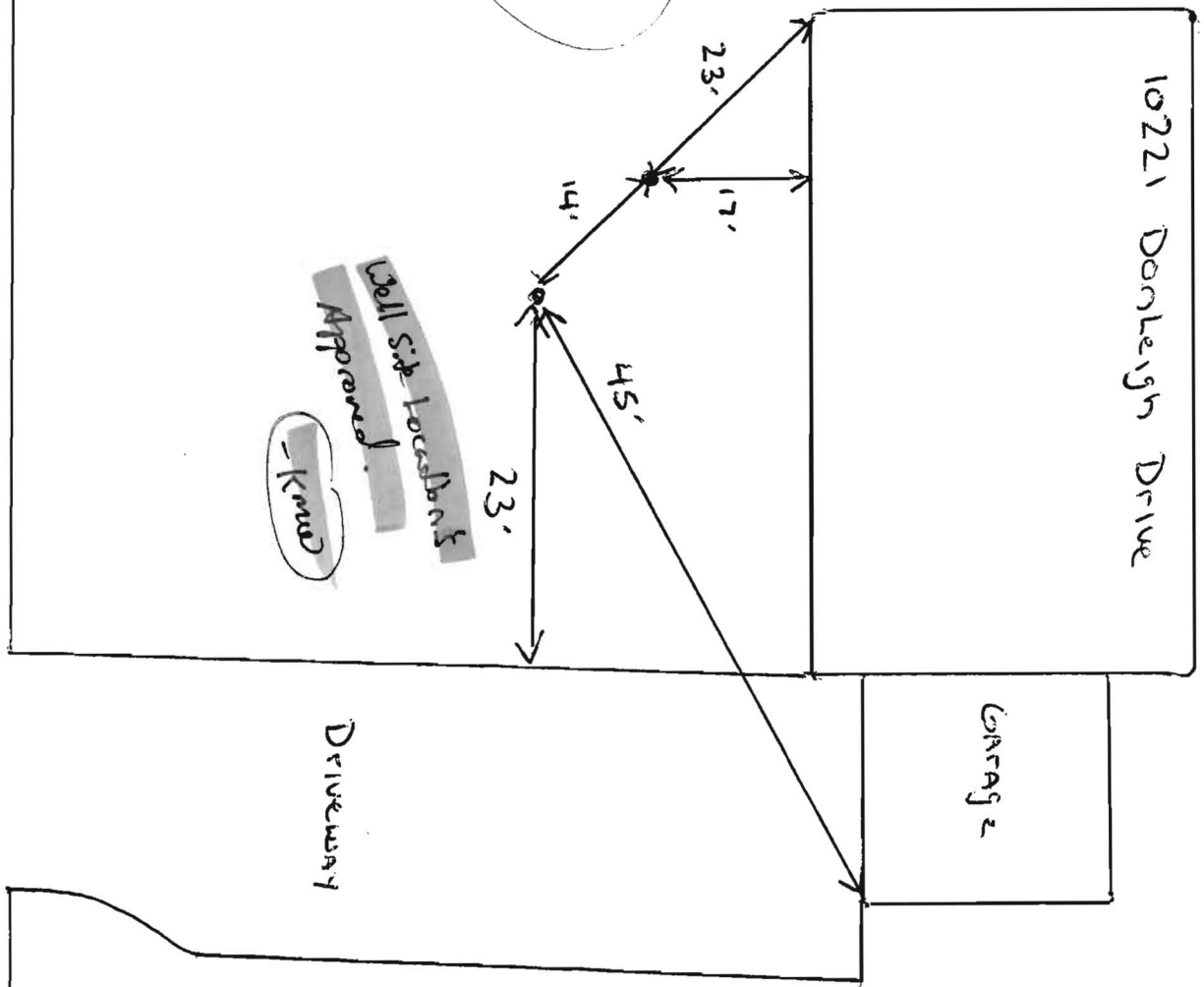
REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX) N THIS WELL WILL NOT REPLACE AN EXISTING WELL Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEIN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE)

Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER G PERMIT No. 40-95-2286

SPECIAL CONDITIONS Grouts must be called in 24hrs. prior to starting.

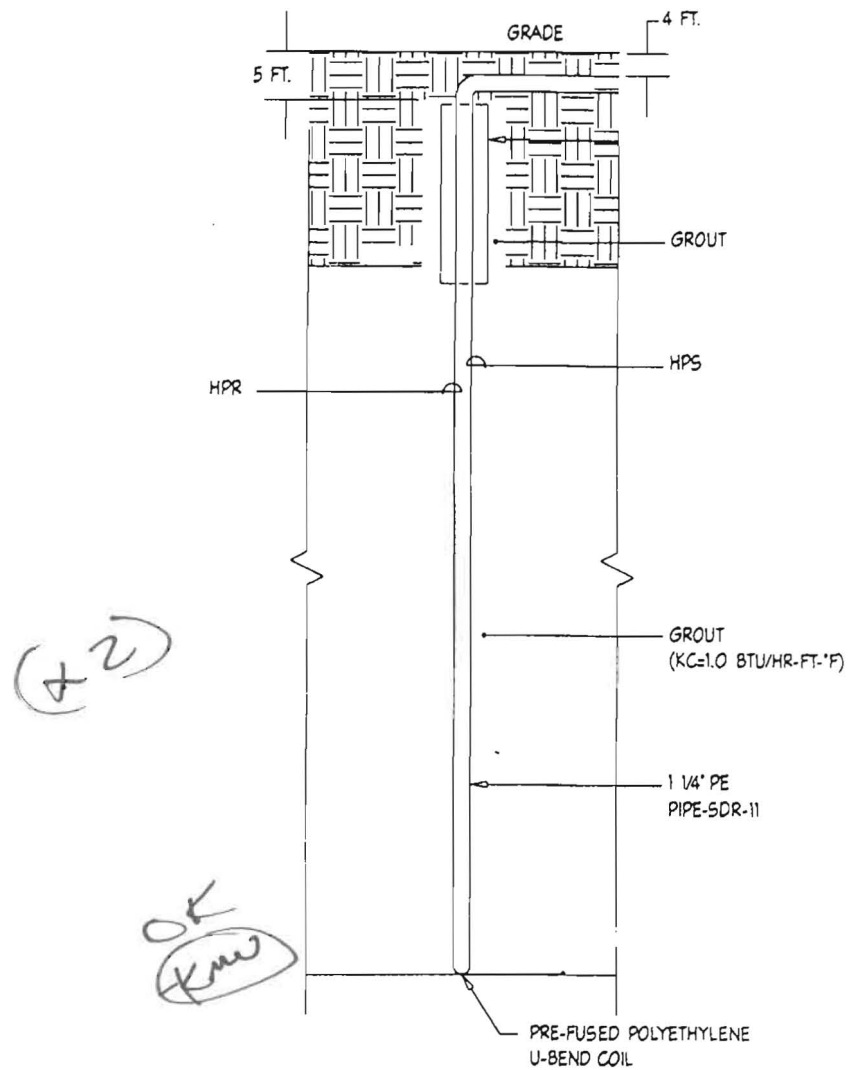
Proposition for  
Public Sewer.

Series - 1974  
1120 - 1986



**Bell Site Location's**  
Approved.  
-Krus

Donleigh Drive



4 TYPICAL BORE HOLE DETAIL  
M1.00 NOT TO SCALE

**MICHAEL BARLOW WELL DRILLING  
522 UNDERWOOD LANE  
BEL AIR, MD 21014  
410-838-6910**

April 11, 2012

Howard County Health Department  
7178 Columbia Gateway Drive  
Columbia, MD 21046  
Fax: 410-313-2648

Re: 10221 Donleigh Drive

Dear Department of Environment:

Please note unless otherwise specified all geothermal bores installed by our company will be installed as follows:

Grout: Bentonite Grout 20% solids minimum  
Manufacture(s): Baroid or Wyo-Ben  
Will be grouted from the bottom to the top with grout material

Piping: Polyethylene SDR 11 160 PSI as recommended per IGSHPA  
Manufacture: EnDot or Charter Plastics or equal, Size 1" or 1 1/4"  
IGSHPA Certification Number 12687

} ok.

Also attached is a cross section diagram of the bore hole.

We would appreciate your help in getting this permit released as soon as possible so that we can expedite this project. If you have any questions, please do not hesitate to contact me.

Sincerely,



Michael Barlow