

**C1** **51160** SEQUENCE NO. (MDE USE ONLY)

1 2 3 6  
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY  
 DATE Received  
 MM 01 DD 17 YR 17

DATE WELL COMPLETED  
 MM 12 DD 09 YR 26

**STATE OF MARYLAND**  
**WELL COMPLETION REPORT**  
 FILL IN THIS FORM COMPLETELY  
 PLEASE TYPE

Depth of Well  
 22 300 26  
 (TO NEAREST FOOT)

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

COUNTY NUMBER 13

PERMIT NO.  
 FROM "PERMIT TO DRILL WELL"  
HO-15-0349

28 29 30 31 32 33 34 35 36 37

OWNER Ferraro / AJo Ph. Lip / Brenda

WELL SITE ADDRESS 7255 meadow wood way TOWN Clarksuite

SUBDIVISION Simpson Woods SECTION \_\_\_\_\_ LOT 10

**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	
<u>top soil</u>	<u>0'</u>	<u>1'</u>	
<u>Sandy s.s. brown</u>	<u>1'</u>	<u>60'</u>	
<u>weathered rock</u>	<u>60'</u>	<u>70'</u>	
<u>Rock Rock</u>	<u>70'</u>	<u>300'</u>	

Installed 1.25 x 300' HDPE w/ barrel closed loop

**GROUTING RECORD**

WELL HAS BEEN GROUTED (Circle Appropriate Box)  
 Y  N

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

NO. OF BAGS 14 NO. OF POUNDS 700

GALLONS OF WATER \_\_\_\_\_

DEPTH OF GROUT SEAL (to nearest foot)  
 from 0' ft. to 300' ft.  
 (enter 0 if from surface)

**CASING RECORD**

cases types insert appropriate code below

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

MAIN CASING TYPE \_\_\_\_\_

Nominal diameter top (main) casing (nearest inch) \_\_\_\_\_

Total depth of main casing (nearest foot) \_\_\_\_\_

**OTHER CASING (if used)**

E A C H C A S I N G	diameter		depth (feet)	
	inch	from	to	to
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**SCREEN RECORD**

screen type or open hole (insert appropriate code below)

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

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED  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. MWD 572

Samuel A. Connelly  
 DRILLERS SIGNATURE  
 (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. D

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

**C2** DEPTH (nearest ft.)

1	2	3	4	5	6	7	8	9	10
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

SLOT SIZE 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_

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 \_\_\_\_\_

70 \_\_\_\_\_ 72 \_\_\_\_\_ 74 75 76 \_\_\_\_\_

TELESCOPE CASING LOG INDICATOR OTHER DATA

**C3** PUMPING TEST

HOURS PUMPED (nearest hour) N/A

PUMPING RATE (gal. per min.) N/A

METHOD USED TO MEASURE PUMPING RATE N/A

WATER LEVEL (distance from land surface)

BEFORE PUMPING 60' ft.

WHEN PUMPING N/A ft.

TYPE OF PUMP USED (for test)

A air  P piston  T turbine

C centrifugal  R rotary  O other (describe below)

J jet  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

- below } 3 (nearest foot)

LATITUDE 39.174716

LONGITUDE 76.920817

(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.

<b>B 1</b>	SEQUENCE NO. (MDE USE ONLY) <b>46455</b>	<b>STATE OF MARYLAND</b> <b>APPLICATION FOR PERMIT TO DRILL WELL</b>	STATE PERMIT NUMBER <b>HO - 15 - 0349</b>
1 2 3 4 5 6		<b>559830-B</b> please type	70 <b>fill in this form completely</b> 79

**OWNER INFORMATION**

Date Received (APA) **11/16/16**

8 MM DD YY 13

15 Last Name Ferraro/Aloi Owner Philip/Brenda First Name 34

36 7255 Meadow Wood Way Street or RFD 55

57 Marksville Town 70 MD State 72 21029 Zip 76

**B 3** LOCATION OF WELL

Howard COUNTY 8 21

Simpson Woods SUBDIVISION 23 42

SECTION 44 46 LOT 10 50

Clarksville NEAREST TOWN 52 71

**DRILLER INFORMATION**

Samuel A Connelly Driller's Name 76 MWD 572 License No. 81

Connelly + Associates, Inc. Firm Name

260 Interstate Ct. Frederick Md. 21702 Address

Samuel A Connelly Signature 11-7-16 Date

**B 4** SOURCES OF DRILLING WATER

1. Private

2. (2)

3. (0)

7255 Meadow Wood Way STREET ADDRESS 11 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH  WEST  EAST  SOUTH

34 300 37 DISTANCE FROM ROAD

ENTER FT OR MI FT 38 39

TAX MAP: 41 BLK: 8 PARCEL 423

**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 3 geo bores

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**

Howard COUNTY NAME 13 COUNTY NO.

STATE SIGNATURE \_\_\_\_\_ INSERT S → 41

DATE ISSUED 11/15/16 R-R-T CO SIGNATURE 11/15/17 EXP. DATE

43 MM DD YY 48

APPROXIMATE DEPTH OF WELL 320 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 DEEPEINED WELLS** (CIRCLE APPROPRIATE BOX)

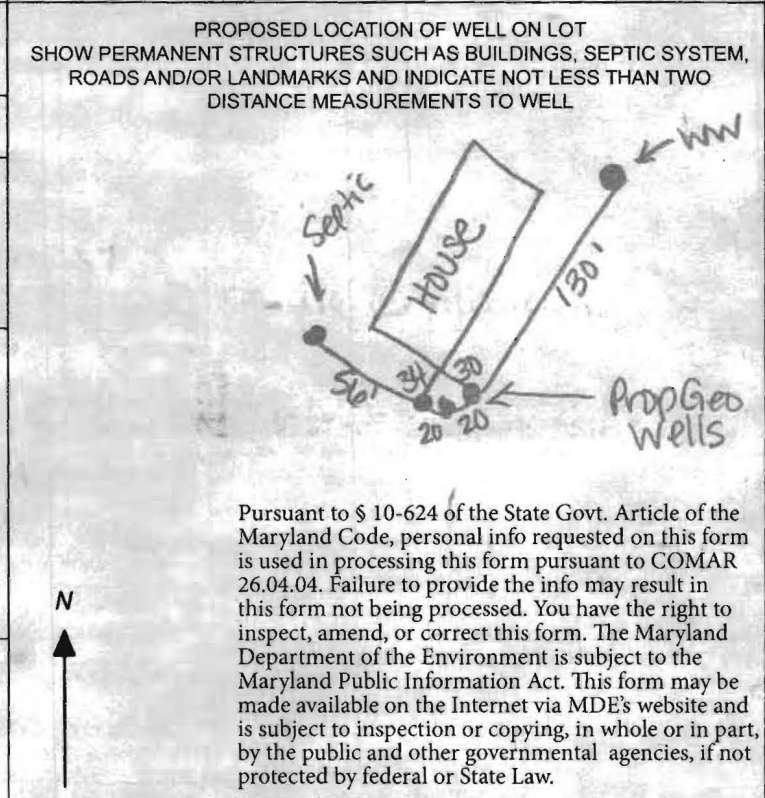
N THIS WELL WILL NOT REPLACE AN EXISTING WELL

Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39  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) 41 \_\_\_\_\_ 52



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

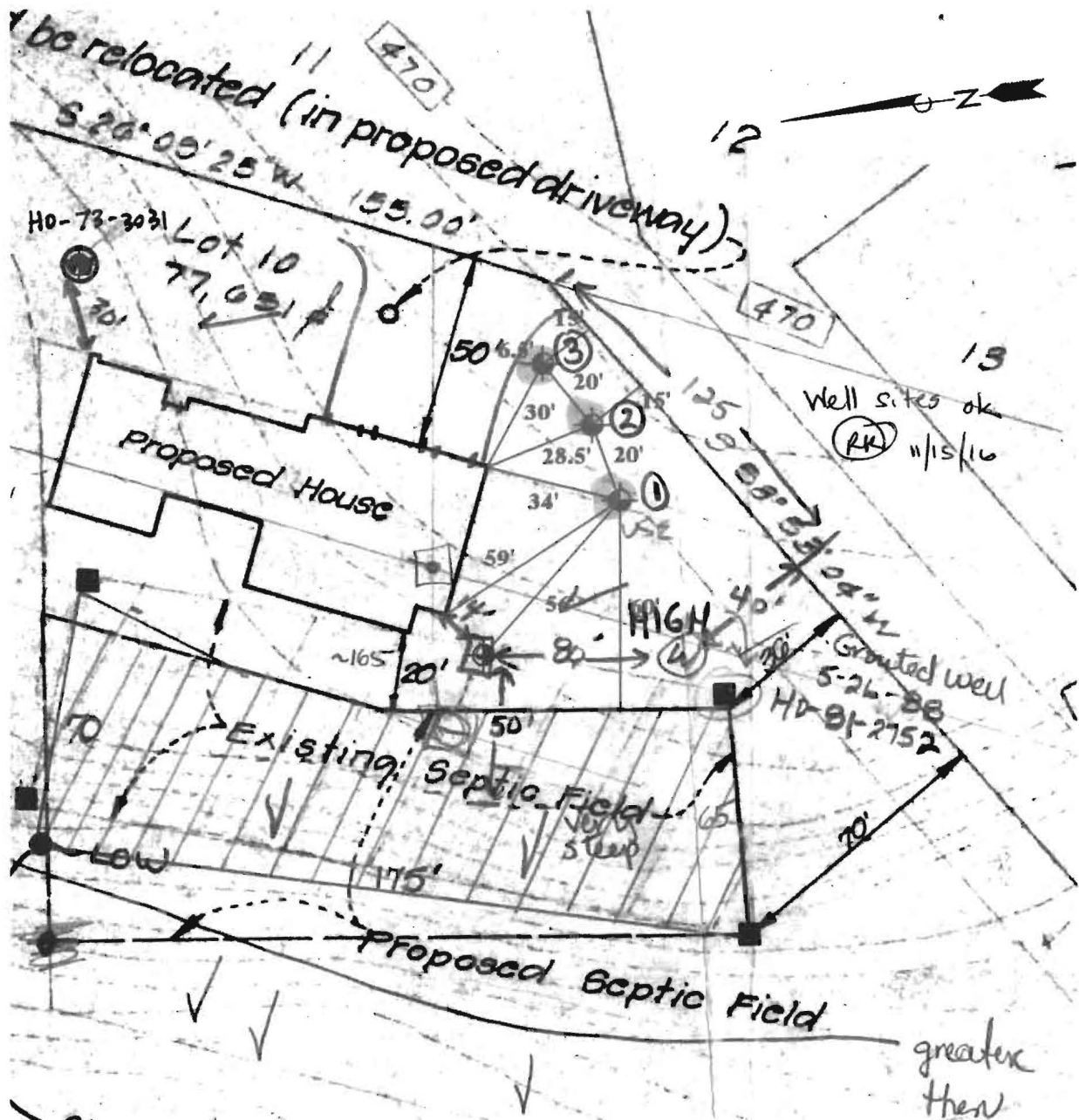
APPROX. PERMIT NUMBER \_\_\_\_\_ G \_\_\_\_\_

PERMIT No. HO - 15 - 0349

70 71 72 73 74 75 76 77 78 79

**SPECIAL CONDITIONS**

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED - All wells must be grouted from bottom to top.



L E G E N D

- PROPOSED GEOTHERMAL WELL LOCATION
- APPROXIMATE DOMESTIC WELL LOCATION
- APPROXIMATE DOMESTIC WELL LOCATION

GRAPHICAL SCALE



260 Interstate Court (301) 696-8820  
 Frederick, Maryland 21704 (301) 696-0327 fax

FERRARO RESIDENCE  
 7255 MEADOW WOOD WAY, CLARKSVILLE, MARYLAND

PROPOSED GEOTHERMAL WELL  
 LOCATION PLAN

Scale:  
 AS SHOWN

Fig.

Date:  
 NOV. 2016

Drawn By:  
 J.A.

Checked By:  
 E.S.

Project No.:  
 00000

1

helper  
Shannon's Rob-driller

# FILE INQUIRY NOTES

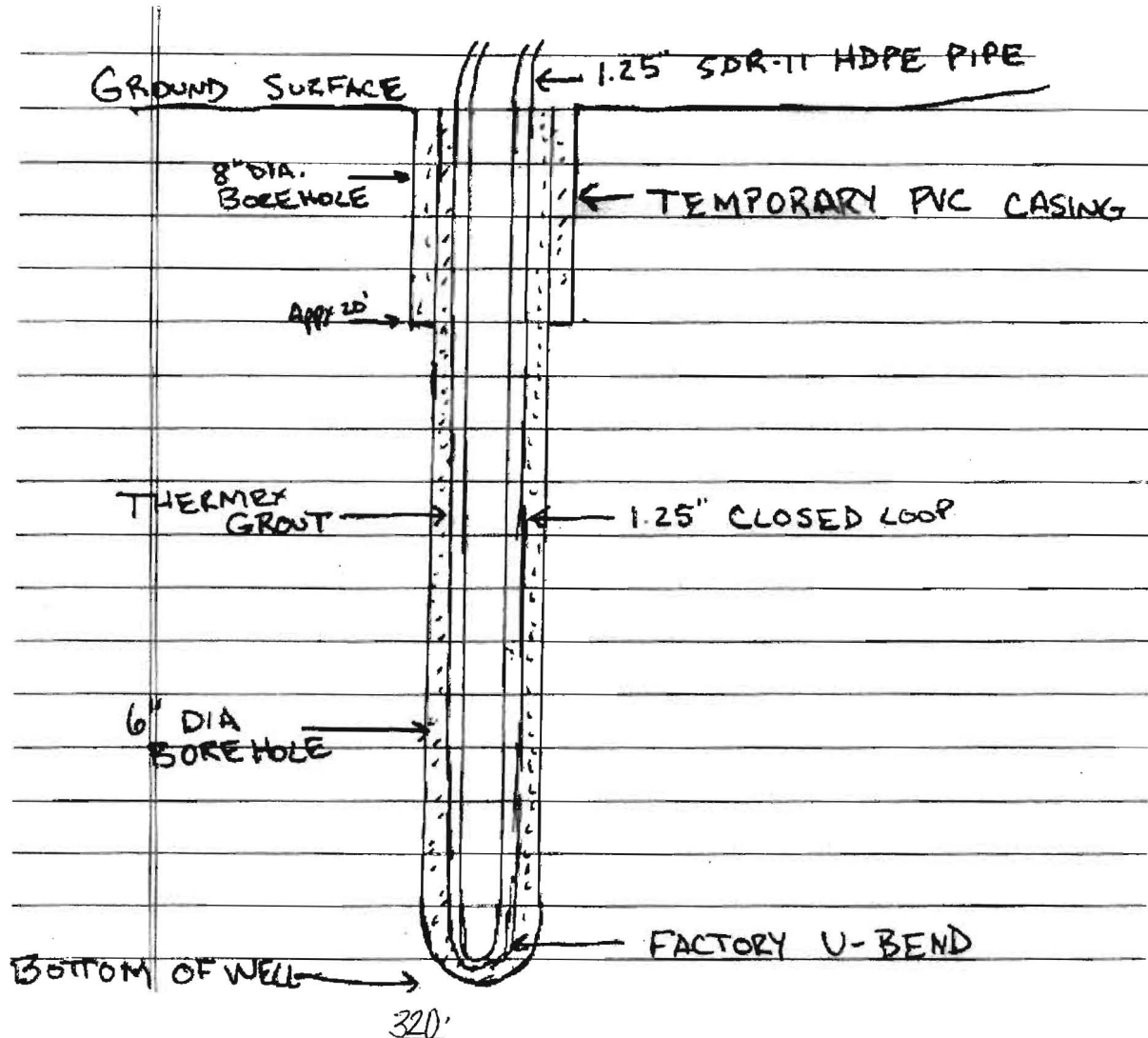
(P.1)

DATE	RESULTS OF REVIEW FOR FILE
11/10/16	site visit, geothermal sites ok, clean outs for septic tank and dry well located, 2 potable well located also. One well # H0-73-3031 is located in the northeast (front) of the property. The other well # H0-81-2752 is located in the southern part of the property and sits very close to the SDA. No one home at time of site visit - (PR)
11/15/16	attempted to get homeowner contact info from driller but was never called back. Went to the property and met w/ homeowner, Brenda Alois who did not know why there were 2 potable wells on the property. She said they have only lived in the house since September of 2016 this year. She had her husband contact me later in the day (Philip Ferraro) who informed me that he thinks the 2 wells supply water to the house. He said there was an A/B switch in the basement. He also said that if he ever turns the older well into an irrigation source or abandons it he'll inform the health dept. - (PR) Homeowner's contact = 410-531-6387 or brenda_alois@yahoo.com.
12/6/16	1st site visit, driller onsite rig set up, no drilling activities yet, driller is waiting on casing to be delivered, 2nd site visit driller not onsite (left due to heavy rain), some drilling had been completed, casing in place and opening of casing was covered for protection. (PR)
12/7/16	site visit driller onsite, 1st well completed and loop dropped, to be grouted tomorrow 12/8/16, 115' of casing used on well #1

→



Geothermal Closed Loop / Address: 7255 Meadow Wood Way, Clarksville, MD



Grout information for this property is as follows:

Thermex grout mixture of 50 lb. grout to 19 gallons water, placed in the well using the tremie method, from bottom to top.