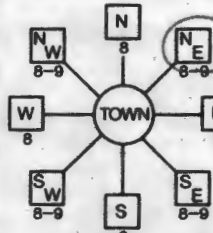
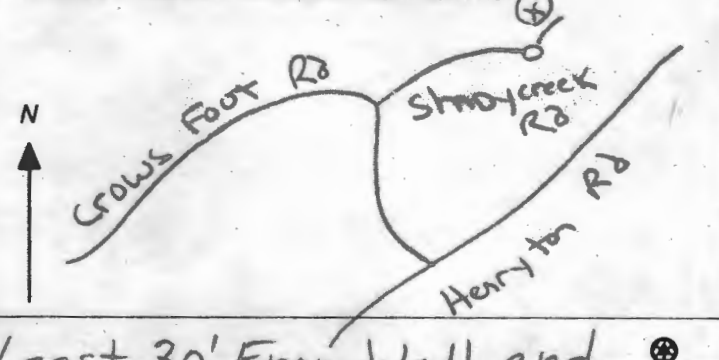


C 1	6025	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)				
ST/CO USE ONLY DATE Received MM DD YY 11 15 11		DATE WELL COMPLETED MM DD YY 11 1 11		Depth of Well 22 300 26 12/7/2011 (TO NEAREST FOOT) O.K. (BB)
		PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-95-2172		
OWNER <u>MORATH JOHN</u> STREET OR RFD <u>1719 SHADY CREEK RD</u> TOWN <u>MARRIOTTSVILLE, MD 21104</u> SUBDIVISION _____ SECTION _____ LOT _____				

WELL LOG Not required for driven wells			GROUTING RECORD YES NO <input checked="" type="checkbox"/> <input type="checkbox"/>		
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING			WELL HAS BEEN GROUTED (Circle Appropriate Box)		
DESCRIPTION (Use additional sheets if needed)	FEET FROM TO	check if water bearing	TYPE OF GROUTING MATERIAL (Circle one) CEMENT <input checked="" type="checkbox"/> BENTONITE CLAY <input checked="" type="checkbox"/>		
SOIL clay Brown Shale Gray Rock	0 7 7 15 15 60 60 300		NO. OF BAGS <u>63</u> NO. OF POUNDS <u>5130</u> GALLONS OF WATER <u>280</u> DEPTH OF GROUT SEAL (to nearest foot) from <u>2</u> ft. to <u>300</u> ft. (enter 0 if from surface)		
			CASING RECORD casing types insert appropriate code below <input checked="" type="checkbox"/> ST STEEL <input checked="" type="checkbox"/> CO CONCRETE <input type="checkbox"/> PL PLASTIC <input type="checkbox"/> OT OTHER		
			MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot) 60 61 62 63 64 65 66 67 68 69 70		
			OTHER CASING (if used) diameter depth (feet) inch from to		
			SCREEN RECORD screen type or open hole (insert appropriate code below) <input checked="" type="checkbox"/> ST STEEL <input checked="" type="checkbox"/> BR BRASS <input checked="" type="checkbox"/> HO OPEN HOLE <input type="checkbox"/> PL PLASTIC <input type="checkbox"/> OT OTHER		
NUMBER OF UNSUCCESSFUL WELLS: <u>0</u>			DEPTH (nearest ft.) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76		
WELL HYDROFRACTURED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
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. <u>MWD 355</u> DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) <u>David Hurl</u> LIC. NO. <u>AWD 166</u>			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		
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)			TELESCOPE CASING LOG INDICATOR OTHER DATA		

PUMPING TEST	
HOURS PUMPED (nearest hour) 8 9	
PUMPING RATE (gal. per min.) 11 15	
METHOD USED TO MEASURE PUMPING RATE _____	
WATER LEVEL (distance from land surface)	
BEFORE PUMPING 17 20 ft.	
WHEN PUMPING 22 25 ft.	
TYPE OF PUMP USED (for test) <input checked="" type="checkbox"/> A air <input checked="" type="checkbox"/> P piston <input checked="" type="checkbox"/> T turbine <input checked="" type="checkbox"/> C centrifugal <input checked="" type="checkbox"/> R rotary <input checked="" type="checkbox"/> O other (describe below) <input checked="" type="checkbox"/> J jet <input checked="" type="checkbox"/> S submersible	
PUMP INSTALLED	
DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO)	
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.	
TYPE OF PUMP INSTALLED PLACE (A,C,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) <input checked="" type="checkbox"/> + above <input type="checkbox"/> - below LAND SURFACE (nearest foot) 48 50 51	
LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)	

B 1 1 2 3 6 <div style="font-size: 24pt; font-weight: bold;">2265</div>	SEQUENCE NO. (MDE USE ONLY) <div style="font-size: 24pt; font-weight: bold;">535216</div>	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type	STATE PERMIT NUMBER <div style="font-size: 24pt; font-weight: bold;">HO-95-2172</div> <div style="font-size: 10pt;">fill in this form completely</div>
Date Received (APA) <div style="font-size: 24pt; font-weight: bold;">06-21-11</div> <div style="font-size: 10pt;">8 MM DD YY 13</div>		B 3 LOCATION OF WELL <div style="font-size: 24pt; font-weight: bold;">Howard</div> <div style="font-size: 10pt;">8 COUNTY 21</div> <div style="font-size: 24pt; font-weight: bold;">MEADOWOOD</div> <div style="font-size: 10pt;">23 SUBDIVISION 42</div> <div style="font-size: 10pt;">SECTION 1 44 46 48 50</div> <div style="font-size: 24pt; font-weight: bold;">West Friendship</div> <div style="font-size: 10pt;">52 NEAREST TOWN 71</div> <div style="font-size: 10pt;">MILES FROM TOWN (enter 0 if in town) 73 76 77 78</div> <div style="font-size: 24pt; font-weight: bold;">3</div>	
OWNER INFORMATION <div style="font-size: 24pt; font-weight: bold;">Morath John</div> <div style="font-size: 10pt;">15 Last Name Owner First Name 34</div> <div style="font-size: 24pt; font-weight: bold;">1219 Shady Creek Rd</div> <div style="font-size: 10pt;">36 Street or RFD 55</div> <div style="font-size: 24pt; font-weight: bold;">Marriottsville MD 21104</div> <div style="font-size: 10pt;">57 Town 70 State 72 Zip 76</div>		B 4 <div style="font-size: 10pt;">1 2</div> DIRECTION OF WELL FROM TOWN (CIRCLE BOX) 	
DRILLER INFORMATION <div style="font-size: 24pt; font-weight: bold;">Michael Barlow MWD 355</div> <div style="font-size: 10pt;">Driller's Name 76 License No. 81</div> <div style="font-size: 24pt; font-weight: bold;">Barlow Well Drilling</div> <div style="font-size: 10pt;">Firm Name</div> <div style="font-size: 24pt; font-weight: bold;">522 Underwood Lane 21014</div> <div style="font-size: 10pt;">Address</div> <div style="font-size: 24pt; font-weight: bold;">[Signature]</div> <div style="font-size: 10pt;">Signature Date 6/17/11</div>		<div style="font-size: 24pt; font-weight: bold;">(1219) Shady Creek Rd</div> <div style="font-size: 10pt;">11 NEAR WHAT ROAD 30</div> <div style="font-size: 10pt;">ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)</div> <div style="font-size: 10pt;">34 150 37</div> <div style="font-size: 10pt;">DISTANCE FROM ROAD ENTER FT OR MI 38 39</div> <div style="font-size: 10pt;">ENTER FT OR MI</div> <div style="font-size: 10pt;">TAX MAP: 10 BLK: 7 PARCEL 312</div>	
B 2 <div style="font-size: 10pt;">1 2</div> WELL INFORMATION <div style="font-size: 10pt;">APPROX. PUMPING RATE (GAL. PER MIN.) 8 12</div> <div style="font-size: 10pt;">AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20</div>		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <div style="font-size: 24pt; font-weight: bold;">Howard (13) A38173</div> <div style="font-size: 10pt;">COUNTY NAME COUNTY NO.</div> <div style="font-size: 10pt;">STATE SIGNATURE INSERT S 41</div> <div style="font-size: 10pt;">DATE ISSUED 7/5/2011</div> <div style="font-size: 10pt;">CO SIGNATURE 7/5/2012</div> <div style="font-size: 10pt;">EXP. DATE</div> <div style="font-size: 10pt;">NORTH GRID 549 000 55</div> <div style="font-size: 10pt;">EAST GRID 822 000 63</div>	
USE FOR WATER (CIRCLE APPROPRIATE BOX) <div style="font-size: 10pt;"> <input type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input checked="" type="checkbox"/> GEO-THERMAL 4 Bores x 300' </div>		<div style="font-size: 10pt;">APPROXIMATE DEPTH OF WELL 24 300 28 FEET</div> <div style="font-size: 10pt;">APPROXIMATE DIAMETER OF WELL 6 INCH</div> <div style="font-size: 10pt;">NEAREST INCH</div>	
METHOD OF DRILLING (circle one) <div style="font-size: 10pt;"> BORED (or Augered) JETTED Jetted & DRIVEN 30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) 37 CABLE REVERSE-ROTARY Drive-POINT other </div>		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. Well 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE <div style="font-size: 24pt; font-weight: bold;">E 820</div> <div style="font-size: 24pt; font-weight: bold;">N 540</div>	
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <div style="font-size: 10pt;"> <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED 39 <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEMED AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52 </div>		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 	
Not to be filled in by driller (MDE OR COUNTY USE ONLY) <div style="font-size: 10pt;">APPROP. PERMIT NUMBER G</div> <div style="font-size: 10pt;">PERMIT No. HO-95-2172</div> <div style="font-size: 10pt;">70 71 72 73 74 75 76 77 78 79</div>			
SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET FOR NOTES <div style="font-size: 24pt; font-weight: bold;">Keep Boreholes at Least 30' From Well and 20' From Property Lines</div>			

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

June 17, 2011

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

Re: 1219 Shadycreek Road, Marriottsville, Maryland

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

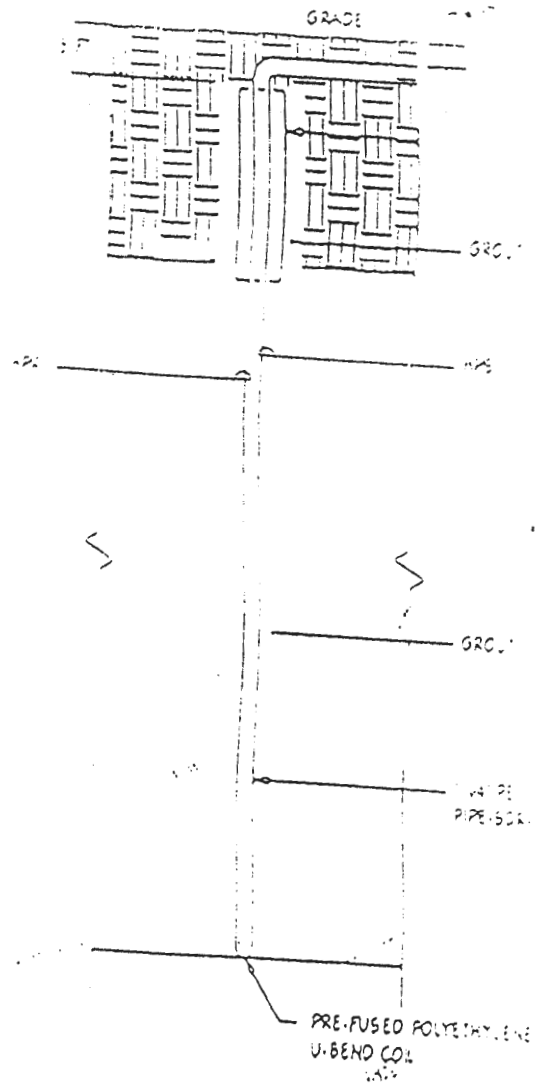
Also attached is a cross section diagram of the bore hole.

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



1
 11.00 TYPICAL BORE HOLE DETAIL
 NOT TO SCALE

NOTES:

- 1) B.R.L. Information, if shown, was obtained from existing record plat or local agencies and is not guaranteed by NTT, Inc.
- 2) Building line and/or Flood Zone information is subject to the interpretation of the originator.
- 3) NTT, Inc. does not certify to unshown or unrecorded encroachments or overlaps.
- 4) Property markers NOT found, or guaranteed by this location.
- 5) Setback distance accuracy: 1' ±

Building Restriction Lines:

Front....125'
Sides....30'
Rear.....60'

7/5/2011
Borough
Location
Plan (BB)

Shady Creek
Road

Subject property is shown in Zone C
on the FIRM Map of Howard County,
Maryland on Community Panel #
240044 0010B. Effective 12-4-86

100 Year Flood Plain
Drainage & Utility Easement

20' Easement for
Ingress & Egress
Plat #7808

20' Drainage & Utility
Easement

N 51°04'25" E
204.64'

N 30°22'48" E
148.55'

N 65°39'06" E
60.85'

S 65°11'54" E
125.53'

N 65°11'54" W 444.66'

L=53.56'
R=50.00'

S 68°20'17" E
207.20'

S 60°44'06" E
52.21'

Stream
(Scaled)

75'
Stream
Buffer
(Scaled)

#1219
2 Sty Br
& Fr

Lot
74

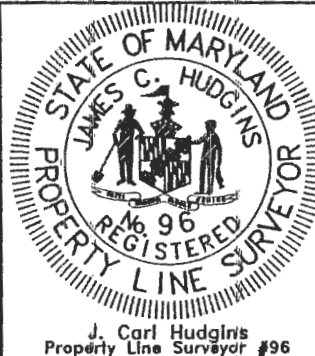
Mac
Drive

BRL

Shared Driveway for
Lots 6, 7 & 74

This is to certify that I have surveyed the property shown hereon,
being known as Lot 74, Section 1,
MEADOWOOD
and recorded among the land records of Howard County,
Maryland in Plat 9598 folio
for the purpose of locating the improvements thereon.

- * This plat is of benefit to the consumer only insofar as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing, or refinancing purposes.
- * This plat is not to be relied upon for the establishment of location of fences, garages, buildings, or other existing or future structures.
- * This plat does not provide for the accurate identification of property boundary lines, but such identification may not be required for the transfer of title or for securing financing or refinancing.



LOCATION DRAWING
1219 Shady Creek Road
Howard County, Maryland
Election District No. 03

NTT Associates, Inc.
16205 Old Frederick Road
Mt. Airy, Maryland 21771
Ph. (410)442-2031
Fax No. (410)442-1315

Scale: 1"=100'
Date: 8-21-08
Field By: Don Walt
Drawn By: Don Walt
Drawing # 7524TIM