

C 1

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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)

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER: Hockwell, Ian; STREET OR RFD: 14600 MONTICELLO DR; TOWN: ...; SUBDIVISION: ...; SECTION: ...; LOT: ...

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes handwritten entries: Soil, Brown shale, Schist, 1 bore x 450'.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS (92), NO. OF POUNDS (4020), GALLONS OF WATER (409), DEPTH OF GROUT SEAL (450 ft).

CASING RECORD: MAIN CASING TYPE (60-70 inch), Nominal diameter, Total depth of main casing.

OTHER CASING (if used) diameter, depth (feet) from to.

SCREEN RECORD: screen type or open hole (ST, BR, HO, PL, OT).

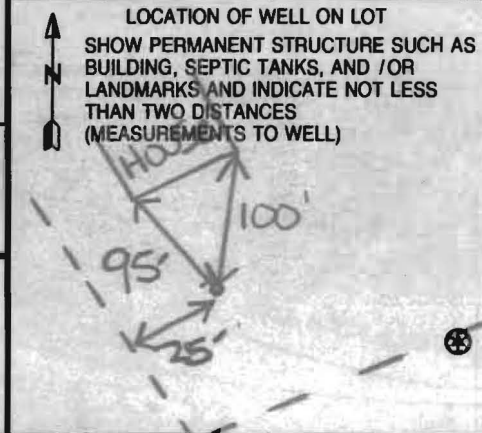
DEPTH (nearest ft.) table with columns 1-21 and rows A-E. Includes SLOT SIZE and DIAMETER OF SCREEN.

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. Includes TELESCOPE CASING, LOG INDICATOR, OTHER DATA.

PUMPING TEST: HOURS PUMPED (8.9), PUMPING RATE (11-15 gal. per min.), 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 (A, C, J, P, R, S, T).

PUMP INSTALLED: DRILLER INSTALLED PUMP (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. CAPACITY: GALLONS PER MINUTE (31-35), PUMP HORSE POWER (37-41), PUMP COLUMN LENGTH (43-47), CASING HEIGHT (above/below LAND SURFACE).



NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y/N)

- CIRCLE APPROPRIATE LETTER: A (WELL WAS ABANDONED AND SEALED), 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...

DRILLERS LIC. NO.: MWD 355

DRILLER'S SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: AWD 905

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

B 1 4675  
1 2 3 6

SEQUENCE NO.  
(MDE USE ONLY)

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL  
please type

STATE PERMIT NUMBER

Ho-95-2025  
70 fill in this form completely 79

Date Received (APA)

10 19 10  
8 MM DD YY 13

OWNER INFORMATION

Stockwell IAN  
15 Last Name Owner First Name 34  
14600 Monticello Drive  
36 Street or RFD 55  
Cooksville MD 21723  
57 Town 70 State 72 Zip 76

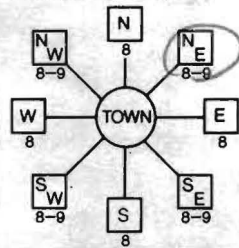
B 3 LOCATION OF WELL

Howard  
8 COUNTY 21  
Forsythe ~~Estates~~  
23 SUBDIVISION 42  
SECTION 44 46 LOT 90 48 50  
Cooksville  
52 NEAREST TOWN 71  
MILES FROM TOWN (enter 0 if in town) 73 M 76 77 78

DRILLER INFORMATION

Michael Barlow M D 355  
Driller's Name 76 License No. 81  
Barlow Well Drilling  
Firm Name  
522 Underwood Lane 21014  
Address  
Signature Date 10/13/10

B 4  
1 2  
DIRECTION OF WELL FROM  
TOWN (CIRCLE BOX)



(14600) Monticello Drive  
11 NEAR WHAT ROAD 30 Court  
ON WHICH SIDE OF ROAD  
(CIRCLE APPROPRIATE BOX)  
NORTH  
WEST EAST  
SOUTH  
230  
34 37  
DISTANCE FROM ROAD FT SE  
ENTER FT OR MI 38 39  
TAX MAP: 8 BLK: 17 PARCEL 271

B 2 WELL INFORMATION  
1 2  
APPROX. PUMPING RATE 0  
(GAL. PER MIN.) 8 12  
AVERAGE DAILY QUANTITY NEEDED 0  
(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
- G GEO-THERMAL 2 boxes x 225'

NOT TO BE FILLED IN BY DRILLER  
HEALTH DEPARTMENT APPROVAL

Howard (13) A520001-A  
COUNTY NAME COUNTY NO.  
STATE SIGNATURE INSERT S  
DATE ISSUED 12/3/2010 Brian Baker 12/3/2011  
43 MM DD YY 48 CO SIGNATURE EXP. DATE  
NORTH GRID 546 0 0 0 EAST GRID 797 0 0 0  
50 55 57 63

APPROXIMATE DEPTH OF WELL 225 FEET  
24 28

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 DEEPEMED AN EXISTING WELL
- PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

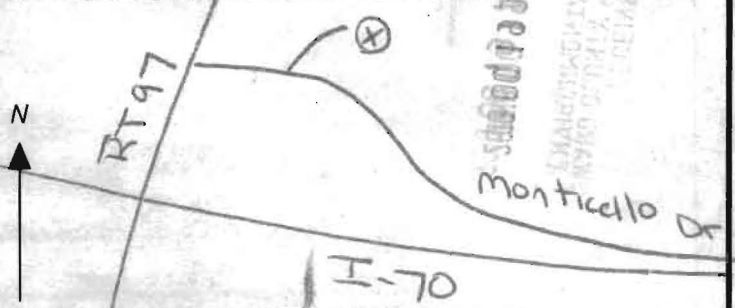
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

- SOURCES OF DRILLING WATER
1. Well
  - 2.
  - 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 797  
N 546

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)

APPROP. PERMIT NUMBER G  
PERMIT No. HO-95-2025  
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED. Seal Old Well -> HO-73-1190

\*\*\*\*\*  
 WATER WELL ABANDONMENT-SEALING REPORT FORM  
 \*\*\*\*\*

SUBMIT COPIES OF COMPLETED FORM TO:

- \* COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)
- \* WELL OWNER
- \* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

4/25/2011

O.K. (BB)

DATE WELL ABANDONED: 1/17/11 (month/day/year)

\* PERMIT NUMBER OF ABANDONED WELL (if any)

HO - 73 - 1190

\* PERMIT NUMBER OF REPLACEMENT WELL

HO - 95 - 0222

\* PERSON ABANDONING WELL: Michael Isom

WELL DRILLERS LICENSE NUMBER: 162

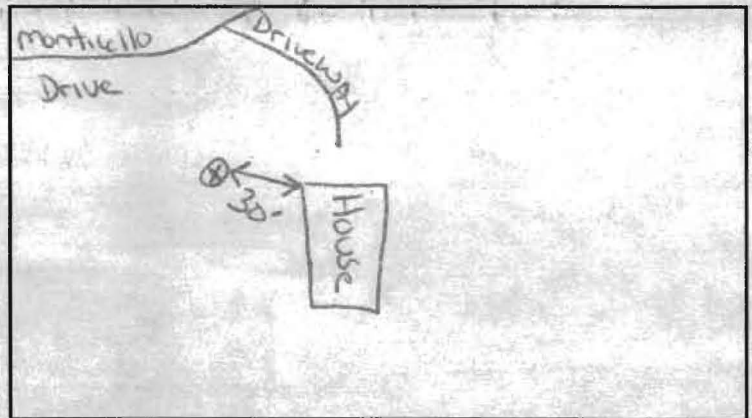
CIRCLE: MWD/MSD/MGD

\* OWNER'S NAME: Ian Stockwell

SITE LOCATION MAP

\* WELL LOCATION:

COUNTY: Howard  
 NEAREST TOWN: Cooksville  
 TAX MAP \_\_\_\_\_ BLOCK \_\_\_\_\_ PARCEL \_\_\_\_\_  
 SUBDIVISION: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ LOT: \_\_\_\_\_  
 NEAREST ROAD: 14600 Monticello Drive



\* TYPE OF WELL BEING ABANDONED:

- DRILLED  JETTED
- BORED/AUGERED  HAND DUG
- OTHER (specify) \_\_\_\_\_

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
Bentonite CLAY	100	0
VOLUME OF MATERIAL USED		

\* USE CODE:

- DOMESTIC  MUNICIPAL/PUBLIC
- IRRIGATION  INDUSTRIAL
- TEST/OBSERVATION  GEOTHERMAL

\* TYPE OF CASING:

- STEEL  PLASTIC
- CONCRETE  OTHER (specify) \_\_\_\_\_

\* SIZE OF CASING: 6 INCHES IN DIAMETER

\* DEPTH OF WELL: 100 FEET DEEP

\* WAS ANY CASING REMOVED?  YES  NO  
 if yes, length removed, in feet: \_\_\_\_\_

\* WAS CASING RIPPED OR PERFORATED?  YES  NO

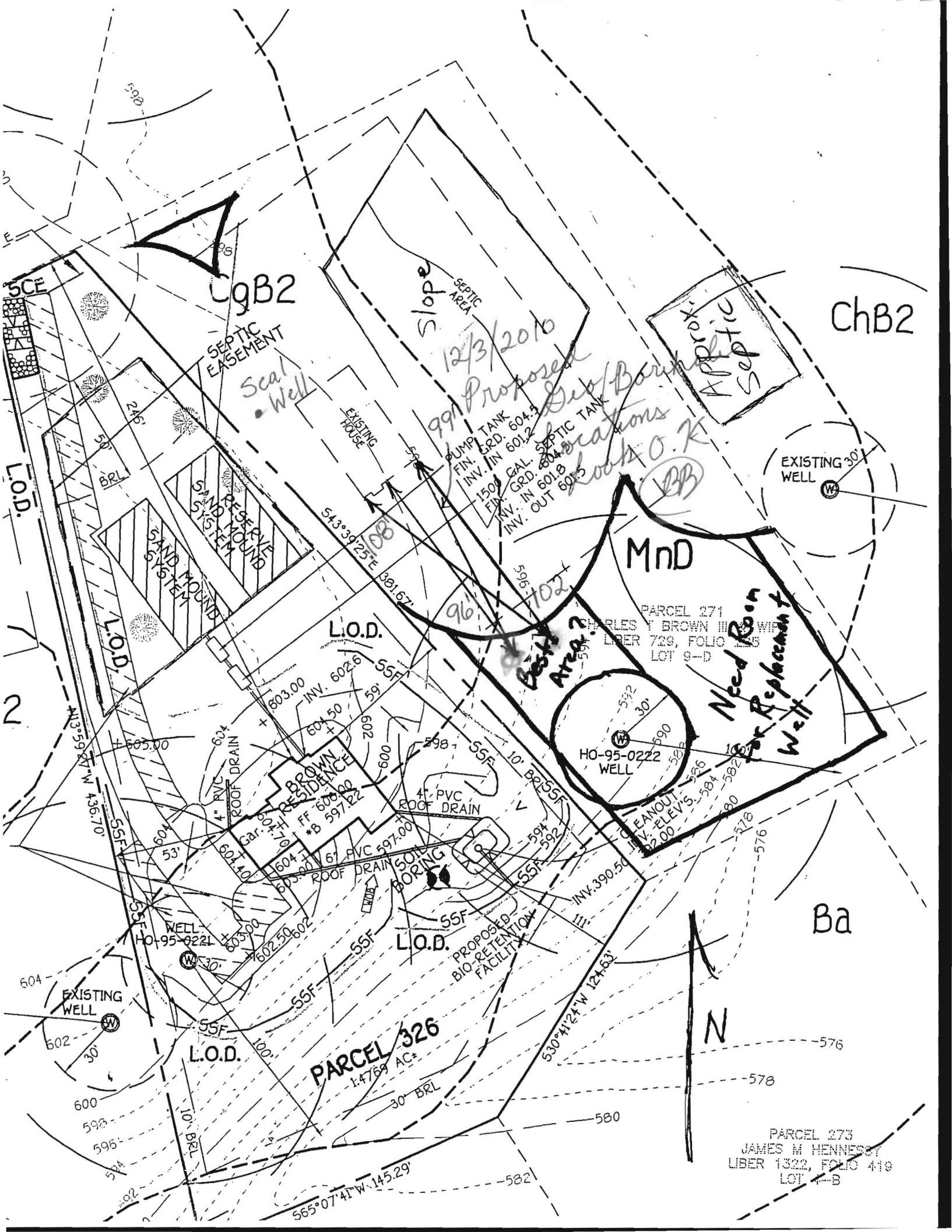
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

LICENSE # 162

MWD/MSD/MGD

DATE 1/17/11





CgB2

ChB2

MnD

Ba

PARCEL 326  
1.4769 AC±

PARCEL 271  
CHARLES Y BROWN III & WIFE  
LIBER 728, FOLIO 125  
LOT 9-D

PARCEL 273  
JAMES M HENNESSY  
LIBER 1322, FOLIO 419  
LOT 4-B

12/3/2010  
991 Proposed  
1500 GAL. SEPTIC TANK  
FIN. IN 601.2  
INV. IN 601.8  
INV. OUT 601.5

Need Room  
for Replacement  
Well

Best Area?

SEPTIC EASEMENT  
Seal Well

BB  
Looks O.K.

96'

L.O.D.

L.O.D.

L.O.D.

SCE

L.O.D.

L.O.D.

2

N

3

E

5

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Providing Quality Systems for Over 20 Years  
Commercial & Residential Water Well Drilling  
Test Borings & Consulting • Geothermal Drilling & Systems  
NGWA & IGSHPA Certified

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

October 14, 2010

Re: 14600 Monticello 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

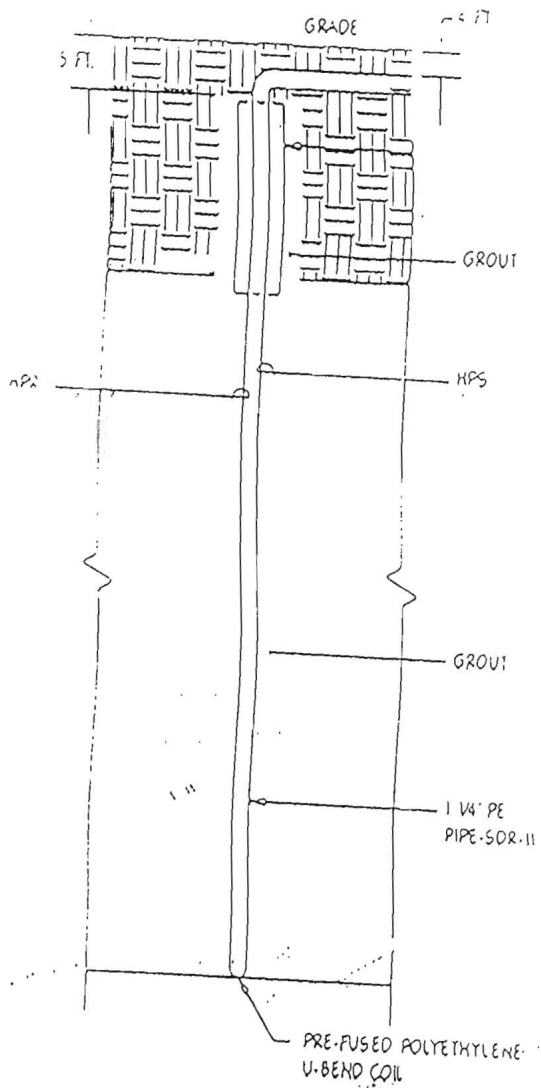
Piping: Polyethylene SDR 11 160 PSI as recommended per IGSHPA  
Manufacture: EnDot or Charter Plastics or equal, Size 1" or 1 1/4"  
IGSHPA Certification Number 12687

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



4  
 TYPICAL BORE HOLE DETAIL  
 11.00  
 NOT TO SCALE