

C1 2910

SEQUENCE NO.  
(MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.1 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)ST/CO USE ONLY  
DATE Received  
MM DD YY

DATE WELL COMPLETED

MM DD YY  
12 4 09

Depth of Well

22 300 26  
(TO NEAREST FOOT)PERMIT NO.  
FROM "PERMIT TO DRILL WELL"H0 - 95 - 1844  
28 29 30 31 32 33 34 35 36 37

OWNER

STREET OR RFD

SUBDIVISION

last name

first name

TOWN

SECTION

LOT

## WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use  
additional sheets if needed)FEET  
FROM TOcheck  
if water  
bearing

Soil 0 5  
Brown shale 5 25  
Granite 25 40  
Brown shale 40 60  
Granite 60 300

## GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)yes no  
Y N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 45 46 NO. OF POUNDS 45 46

GALLONS OF WATER 300

DEPTH OF GROUT SEAL (to nearest foot)

from 48 TOP 52 ft. to 54 BOTTOM 58 ft.  
(enter 0 if from surface)casing  
types  
insert  
appropriate  
code  
below

## CASING RECORD

ST  
STEELCO  
CONCRETEPL  
PLASTICOT  
OTHERMAIN  
CASING  
TYPENominal diameter  
top (main) casing  
(nearest inch)Total depth  
of main casing  
(nearest foot)

60 61 63 64 66 70

E  
A  
C  
H  
C  
A  
S  
I  
N  
G

## OTHER CASING (if used)

diameter depth (feet)  
inch from toscreen type  
or open hole  
insert  
appropriate  
code  
below

## SCREEN RECORD

ST  
STEELBR  
BRASSHO  
OPEN  
HOLEPL  
BRONZEOT  
PLASTIC

OTHER

C 2

DEPTH (nearest ft.)

1 8 9 11 15 17 21  
2 23 24 26 30 32 36  
3 38 39 41 45 47 51  
SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH)

58 60  
from toGRAVEL PACK IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 68MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)

T

(E.R.O.S.)

W Q

70 72 74 75 76  
TELESCOPE LOG  
CASING INDICATOR OTHER DATA

C 3

## 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)

A air P piston T turbine

C centrifugal R rotary O other (describe below)

J jet S submersible

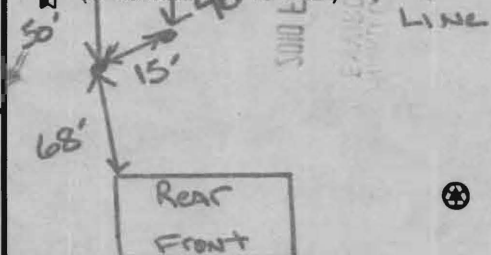
## PUMP INSTALLED

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,J,P,R,S,T,O)  
IN BOX 29CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH  
(nearest ft.) 43 47CASING HEIGHT (circle appropriate box  
and enter casing height)+ above } LAND SURFACE (nearest foot)  
- below }

## 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)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED

yes

Y

no

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  
WELLI 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.

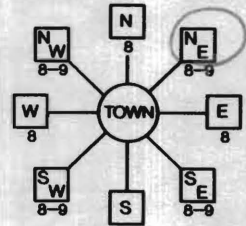
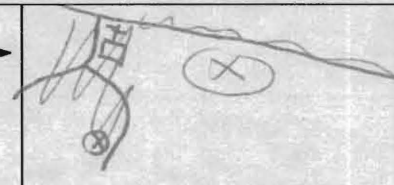
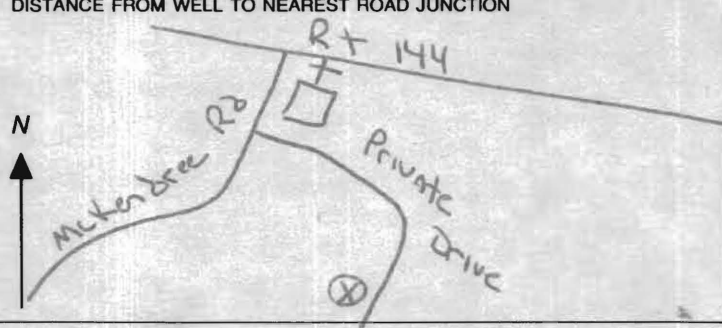
DRILLERS LIC. NO. 1 MW D 355

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 MS D 066

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

B 1	3106	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL	STATE PERMIT NUMBER <u>40-95-1844</u> <small>fill in this form completely</small>
1 2 3 6			532460 please type	
Date Received (APA) 8 MM DD YY 13 <u>Ohlmacher John</u>			B 3 LOCATION OF WELL 8 COUNTY <u>Howard</u> 21 23 SUBDIVISION <u>Roman Ridge Est</u> 42 SECTION <u>44</u> 46 LOT <u>5</u> 48 50 <u>Glenwood</u> 52 NEAREST TOWN _____ 71 MILES FROM TOWN (enter 0 if in town) <u>2</u> 73 76 77 78	
OWNER INFORMATION 15 Last Name <u>Ohlmacher</u> Owner <u>John</u> First Name 34 36 <u>14144 Rover Mill Road</u> Street or RFD 55 57 <u>West Friendship MD 21794</u> Town 70 State 72 Zip 76			B 4 1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  11 NEAR WHAT ROAD <u>14144 Rover Mill Rd</u> 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH <input checked="" type="checkbox"/> WEST <input type="checkbox"/> EAST <input type="checkbox"/> SOUTH <input type="checkbox"/> 34 <u>3000</u> 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: <u>15</u> BLK: <u>7</u> PARCEL <u>202</u>	
DRILLER INFORMATION Driller's Name <u>Michael Barbow</u> 76 License No. <u>MW D355</u> 81 Firm Name <u>Barbow Well Drilling</u> Address <u>522 Underwood Lane 21014</u> Signature <u>[Signature]</u> 11/8/09 Date				
B 2 WELL INFORMATION 1 2 APPROX. PUMPING RATE (GAL. PER MIN.) _____ 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) _____ 14 20				
USE FOR WATER (CIRCLE APPROPRIATE BOX) <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 <u>2 bores x 300' Permit</u>			NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <u>Howard</u> COUNTY NAME <u>13</u> COUNTY NO. <u>A 32230</u> STATE SIGNATURE _____ INSERT S → 41 DATE ISSUED <u>11/23/09</u> CO SIGNATURE <u>[Signature]</u> EXP. DATE <u>11/23/10</u> 43 MM DD YY 48 NORTH GRID <u>535</u> 0 0 0 EAST GRID <u>0799</u> 0 0 0 50 55 57 63	
APPROXIMATE DEPTH OF WELL <u>300</u> FEET 24 28 APPROXIMATE DIAMETER OF WELL <u>6</u> INCH NEAREST INCH			SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1.  2. 3.	
METHOD OF DRILLING (circle one) 30 BORED (or Augered) <u>JETTED</u> Jetted & DRIVEN AIR-ROTary <u>AIR-PERCussion</u> ROTARY (Hydraulic Rotary) 37 CABLE <u>REVERSE-ROTary</u> DRIVE-POINT other _____			WRITE THE BOX NUMBER FROM THE MAP HERE E <u>800 0799</u> N <u>5345</u>	
REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX) <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 checked="" 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 DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEENED (IF AVAILABLE) 41 _____ 52			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. <u>40-95-1844</u> 70 71 72 73 74 75 76 77 78 79				
SPECIAL CONDITIONS <u>Carput from bottom to top</u> NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED				

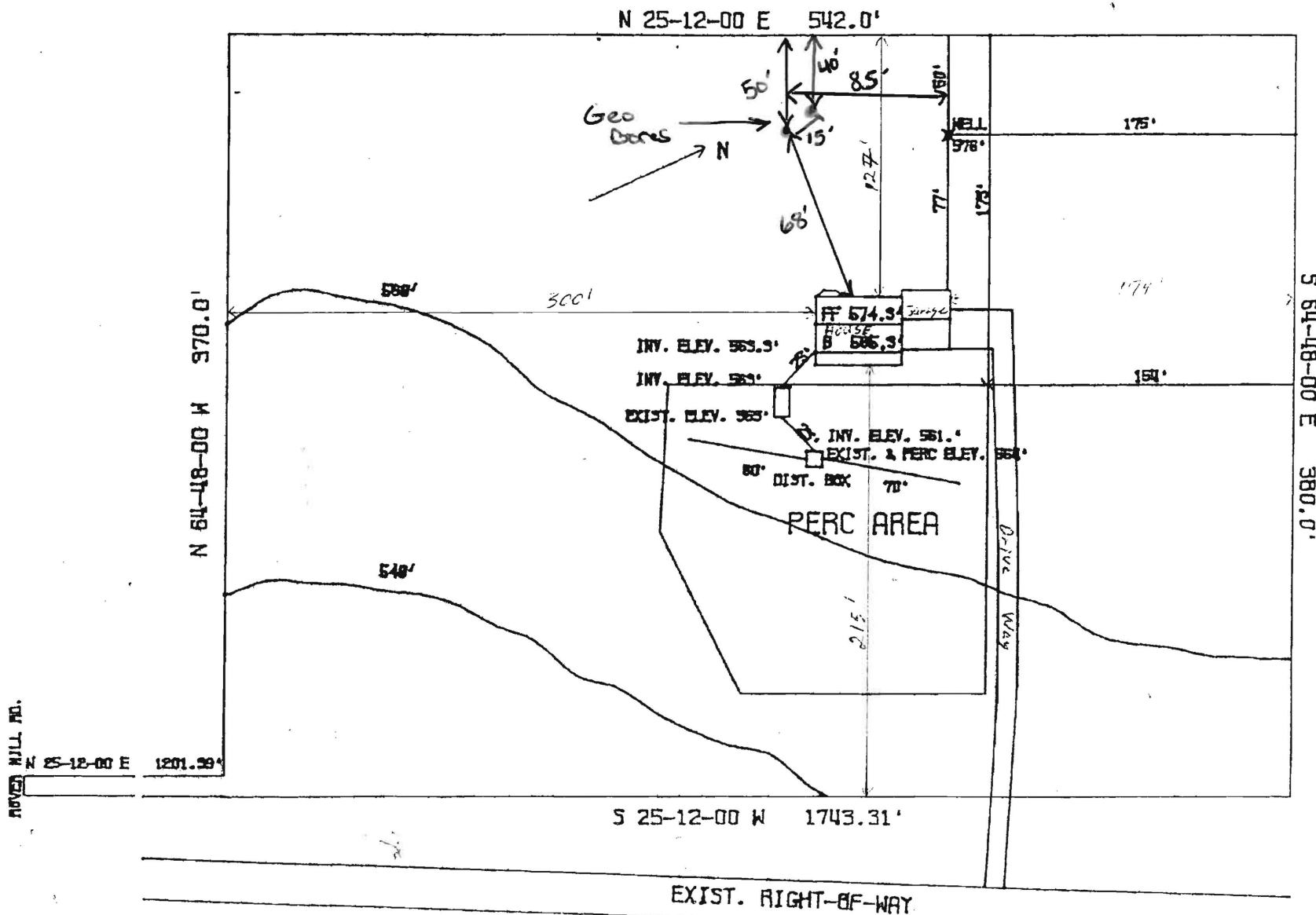
Ronan Ridge Estates  
 Lot #5  
 14144 Rayer Mill Rd.  
 West Friendship, Md.  
 Howard Co.  
 5.884 Acres

11/23/09

Geosites

OK.

Kw



J. T. Ohlmacher  
 Scale 1" = 75'



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

November 19, 2009

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

Re: 14144 Rover Mill Road

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

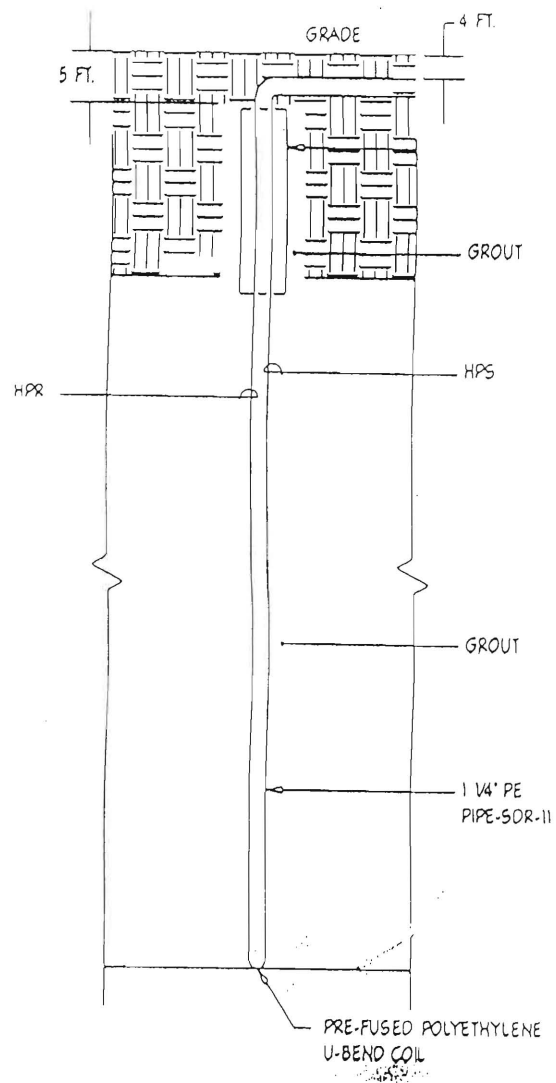
Also attached is a cross section diagram of the bore hole.

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,

A handwritten signature in cursive script, appearing to read "Michael Barlow".

Michael Barlow



4 TYPICAL BORE HOLE DETAIL  
 M1.00 NOT TO SCALE