

B 1

2252

SEQUENCE NO.
(MDE USE ONLY)STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-95-2154
fill in this form completely

535254 please type

Date Received (APA)

8 MM DD YY 13
6/5/11

OWNER INFORMATION

15 Last Name First Name
Hayden Bill36 Street or RFD
13029 Triadelphia Mill Rd57 Town 70 State 72 Zip 76
Clarksville MD 21029

DRILLER INFORMATION

Driller's Name License No.
Michael Barlow MWD355Firm Name
Barlow Well DrillingAddress
522 Underwood Lane 21014Signature Date
6/6/11

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)

- ☒ DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
- ☐ FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
- ☐ INDUSTRIAL, COMMERCIAL, DEWATERING
- ☐ PUBLIC WATER SUPPLY WELL
- ☐ TEST, OBSERVATION, MONITORING
- ☒ GEO-THERMAL 3 bores x 300'

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

AIR-ROTARY AIR-PERCUSION ROTARY (Hydraulic Rotary)

CABLE REVERSE-ROTARY DRIVE-POINT

other

REPLACEMENT OR DEEPEMED WELLS
(CIRCLE APPROPRIATE BOX)

- ☒ THIS WELL WILL NOT REPLACE AN EXISTING WELL
- ☐ THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- ☐ THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
- ☐ THIS WELL WILL DEEPEN AN EXISTING WELL

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

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

APPROP. PERMIT NUMBER G

PERMIT No. HO-95-2154

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

B 3

LOCATION OF WELL

8 COUNTY

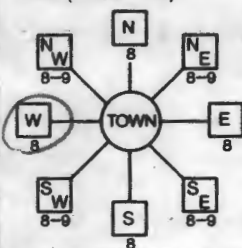
23 SUBDIVISION

SECTION 44 46 LOT 48 50

52 NEAREST TOWN

MILES FROM TOWN (enter 0 if in town) 73 76 77 78

B 4

1 2
DIRECTION OF WELL FROM
TOWN (CIRCLE BOX)

13029 Triadelphia Mill Rd

NEAR WHAT ROAD
ON WHICH SIDE OF ROAD
(CIRCLE APPROPRIATE BOX)34 1000 37
DISTANCE FROM ROAD
ENTER FT OR MI 38 39

TAX MAP: 34 BLK: 11 PARCEL 298

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

Howard 13 P514968

COUNTY NAME

COUNTY NO.

STATE
SIGNATURE

INSERT S

DATE ISSUED

6/28/2011 Brian Baker 6/28/2012

43 MM DD YY 86 CO SIGNATURE

EXP DATE

NORTH

GRID 501 000 55

EAST

GRID 809 000 83

SHOW MAJOR FEATURES OF
BOX & LOCATE WELL
WITH AN X

SOURCES OF DRILLING WATER

- Well
-
-

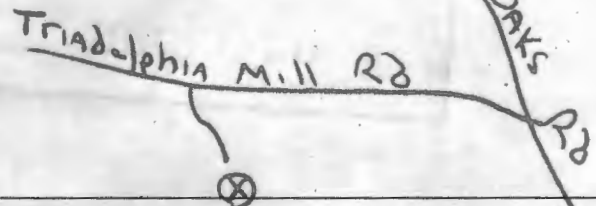
WRITE THE BOX NUMBER
FROM THE MAP HERE

E 8009

N 3001

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN
RELATION TO NEARBY TOWNS AND ROADS AND GIVE
DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

N



C16041

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.

COUNTY
NUMBER

ST/CO USE ONLY
DATE Received
MMDDYY
813

DATE WELL COMPLETED
MMDDYY
113011

Depth of Well
2230028
(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
HO-95-2154

OWNER
HAYDEN BILL

STREET OR RFD
13029 TRIDELPHIA DR

TOWN
CLARKSVILLE, MD

SUBDIVISION
21029

SECTION
LOT

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 | |
| Soil | 0 | 7 | |
| CLAY | 7 | 16 | |
| Brown Shale | 16 | 37 | |
| Gray Rock | 37 | 300 | |
| 3 boreholes x 300' | | | |

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)
YES ☒ NO ☐

TYPE OF GROUTING MATERIAL (Circle one)
CEMENT ☒ BENTONITE CLAY ☐

NO. OF BAGS 61 NO. OF POUNDS 3550

GALLONS OF WATER 271

DEPTH OF GROUT SEAL (to nearest foot)
from 2 ft. to 300 ft.
(enter 0 if from surface)

CASING RECORD

casing
types
insert
appropriate
code
below

ST

STEEL

CO

CONCRETE

PL

PLASTIC

OT

OTHER

MAIN CASING TYPE

Nominal diameter
top (main) casing
(nearest inch)

Total depth
of main casing
(nearest foot)

OTHER CASING (if used)

EACH CASING

diameter
inch

depth (feet)
from to

SCREEN RECORD

screen type
or open hole
(insert
appropriate
code
below)

ST

STEEL

BR

BRASS

HO

OPEN
HOLE

PL

PLASTIC

OT

OTHER

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 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

DRILLER'S LIC. NO. MD 355

DRILLER'S SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. MS D 066

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

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

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 Q 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,Q)
IN BOX 28

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 (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)



A hand-drawn site plan oriented vertically. At the top right is a rectangular building labeled "EXIST HOUSE". To its left is another smaller rectangular area labeled "EXIST GARAGE". A "STONE WALK" leads from the house towards a central area. Below the garage is a hatched diamond-shaped area labeled "PROPOSED CARPORT". To the left of the carport is a circular feature labeled "EXIST WELL". A "GRAVEL DRIVE" runs horizontally across the middle. Dimensions include "75' DRL" at the top, "130' L" for the gravel drive, "24' 6\"/>

100' x 100'

100' x 100'

100' x 100'

HOUSE

GARAGE

LARGE LOT

LARGE LOT

100' x 100'

9-6-13



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

June 6, 2011

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

Re: 13029 Triadelphia Mill Road, Clarksville, 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

Driveway

Parking
Area

Garage

10' 0"
15' 0"
15' 0"
10' 0"
5' 0"

75'±

Septic

13029
Triabelphia M.LL RD

Well

6/28/2011

Bonhale
Site Plan

1313