

C1 0596

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

COUNTY NUMBER

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

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER STREET OR RFD SUBDIVISION SECTION LOT

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Drift, Med hard green, and Hard Green.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT BENTONITE CLAY

CASING RECORD

MAIN CASING TYPE Nominal diameter top (main) casing Total depth of main casing

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD

screen type or open hole insert appropriate code below

NUMBER OF UNSUCCESSFUL WELLS:

WELL HYDROFRACTURED

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"

DRILLERS LIC. NO. DRILLERS SIGNATURE LIC. NO.

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

Table with columns: DEPTH (nearest ft.), SLOT SIZE, 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) TELESCOPE CASING LOG INDICATOR OTHER DATA

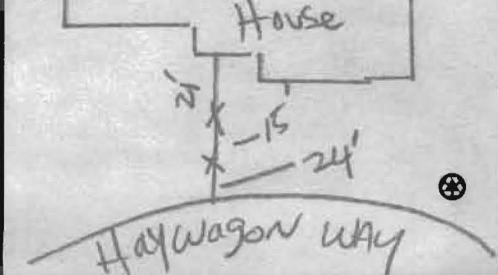
PUMPING TEST

HOURS PUMPED (nearest hour) PUMPING RATE (gal. per min.) METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface)

PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

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 9100

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type

STATE PERMIT NUMBER Ho-95-2126 fill in this form completely

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13 HO Christopher 15 Last Name Owner First Name 34 4526 Haywagon Way 36 Street or RFD 55 Ellicott City MD 21043 57 Town 70 State 72 Zip 76

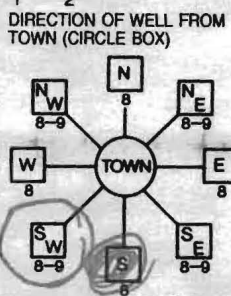
B 3 LOCATION OF WELL

8 COUNTY 21 Howard 23 SUBDIVISION Long Gate 42 SECTION 2 44 46 LOT 318 48 50 Ellicott City 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 1 1/2 M 73 76 77 78

DRILLER INFORMATION

Driller's Name David Kelly M W D 304 76 License No. 81 Firm Name Jones Well Drilling, Inc. 3700 Rush Rd - Jarr. MD 21084 Address David Kelly 4-10-11 Signature Date

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



4526 Haywagon Way 11 NEAR WHAT ROAD 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NW NORTH 34 30 37 SOUTH 38 39 DISTANCE FROM ROAD FT ENTER FT OR MI TAX MAP: 30 BLK: 6 PARCEL 404

B 2 WELL INFORMATION

APPROX. PUMPING RATE 0 8 12 (GAL. PER MIN.) AVERAGE DAILY QUANTITY NEEDED 0 14 20 (GAL. PER DAY)

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 2-240'

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard (13) Public COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S DATE ISSUED 5/6/2011 Brian Baker 5/6/2012 43 MM DD YY 48 CO SIGNATURE EXP. DATE NORTH GRID 515 000 EAST GRID 853 000 50 55 57 63

APPROXIMATE DEPTH OF WELL 240 24 28 FEET APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary) 30 CABLE REVerse-ROTary DRive-POINT 37 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 DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

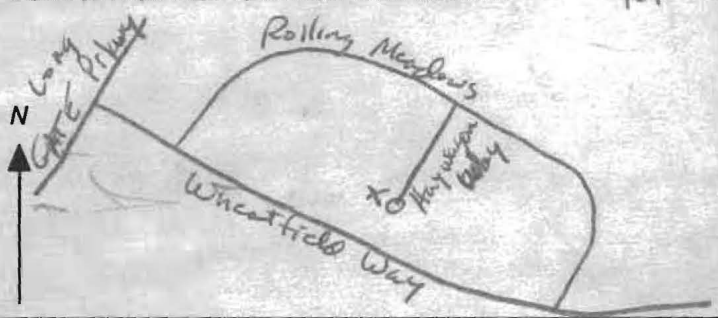
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER 1. 2. 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

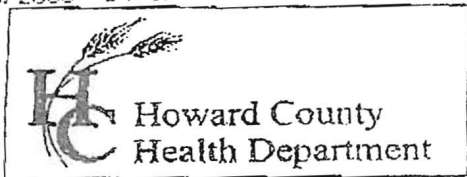
E 76° 49' 30" N 39° 14' 15"

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-95-2126 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



7178 Columbia Gateway Drive, Columbia MD 21046  
 (410) 313-2640 Fax (410) 313-2648  
 TDD (410) 313-2323 Toll Free 1-866-313-6300  
 website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location:

4526 Haywagon Way  
 Subdivision/Property Name      Lot#      Road Name

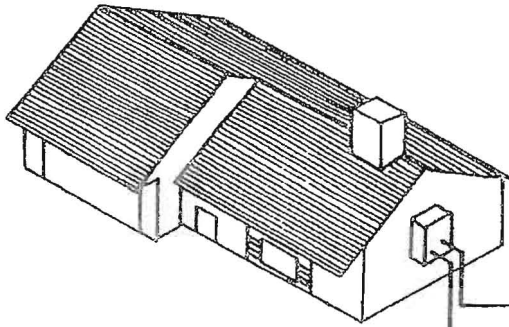
The well site has been staked by Driller  
 (professional land surveyor or company employing professional land surveyors)  
 on \_\_\_\_\_ (date) and does not require a site inspection.

flagged The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

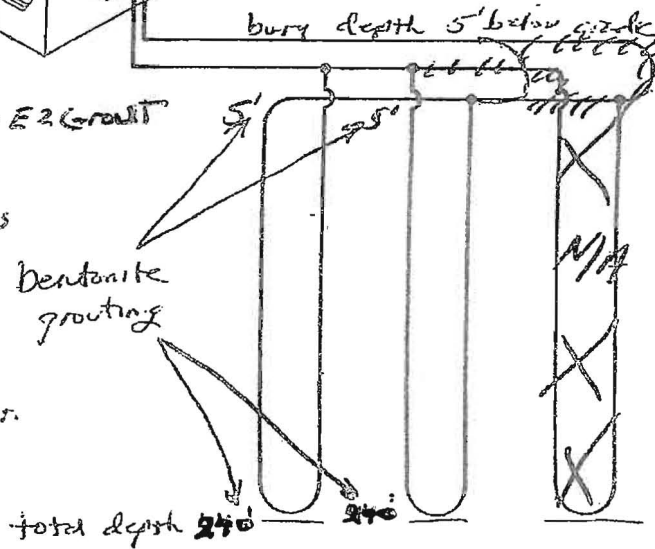
This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/05

Driller: Jones Well Drilling Inc.  
 contact: David Kelly  
 410-692-6981



Wye-Ben Bentonite E2 Grout  
 grout (50 lb. bags)  
 mixed with 24 gallons  
 of water per  
 manufacturer specs  
 yields 27 gal slurry  
 with a 0.42 btu-ft/ft-hr.  
 thermal conductivity



Earth Coil Type: Vertical - Single U-Bend

Water Flow: Parallel

Pipe Sizes: 1" double Loop

Bore Lengths: 240' x 2 holes (480' vertical bore)

Pipe Lengths: 480' x 2 (960' vertical pipe)

FIGURE 4.5: Parallel Vertical Ground Heat Exchanger