

C1 1211

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

COUNTY NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE Received MM DD YY

2 16 07

22 400 26

40-95-0623

OWNER WARD Andrew STREET OR RFD 7809 Fleystone Ct. TOWN Ellicott City, Md 21043

WELL LOG Not required for driven wells

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) YES Y NO N

C 3 PUMPING TEST

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

TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC

HOURS PUMPED (nearest hour) 8

DESCRIPTION (Use additional sheets if needed)

NO. OF BAGS 24 NO. OF POUNDS 1200

PUMPING RATE (gal. per min.) 11

FEET FROM TO

GALLONS OF WATER 480

METHOD USED TO MEASURE PUMPING RATE

dirt 0 1

DEPTH OF GROUT SEAL (to nearest foot) from 48 TOP 52 ft. to 54 BOTTOM 58 ft.

WATER LEVEL (distance from land surface) BEFORE PUMPING 17 20

Sandy soil 1 55

DEPTH OF GROUT SEAL (to nearest foot) from 48 TOP 52 ft. to 54 BOTTOM 58 ft.

WHEN PUMPING 22 25

med tan gray rock 55 62

CASING RECORD casing types insert appropriate code below

TYPE OF PUMP USED (for test) A air P piston T turbine

Hard Gray Rock 62 400

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

C centrifugal R rotary O other (describe below)

Installed 1 1/4" geo. loop

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

J jet S submersible

NUMBER OF UNSUCCESSFUL WELLS: 0

SCREEN RECORD screen type or open hole insert appropriate code below

PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) YES NO

WELL HYDROFRACTURED YES Y NO N

DEPTH (nearest ft.)

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

CIRCLE APPROPRIATE LETTER

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29

A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35

E ELECTRIC LOG OBTAINED

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

PUMP HORSE POWER 37 41

P TEST WELL CONVERTED TO PRODUCTION WELL

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

PUMP COLUMN LENGTH (nearest ft.) 43 47

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.

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

DRILLERS LIC. NO. 1 M W D 3 3 4 1

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

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)

DRILLERS SIGNATURE David Kelly

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

LIC. NO. 1 M W D 5 6 4 1

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

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

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

TELESCOPE CASING

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

LOG INDICATOR

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

OTHER DATA

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

COUNTY

SCREEN RECORD STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

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C 1 1230

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STATE OF MARYLAND WELL COMPLETION REPORT

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

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

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER

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 table with columns for DESCRIPTION, FEET (FROM, TO), and check if water bearing. Includes handwritten entries: sand, med tan gray, hard gray rock, installed 1 1/4" geo loop.

GROUTING RECORD form with fields for WELL HAS BEEN GROUTED, TYPE OF GROUTING MATERIAL, CEMENT, BENTONITE CLAY, NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD form with fields for casing types, MAIN CASING TYPE, Nominal diameter, Total depth of main casing.

OTHER CASING (if used) form with fields for diameter, depth.

SCREEN RECORD form with fields for screen type or open hole, insert appropriate code below.

PUMPING TEST form with fields for HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, BEFORE PUMPING, WHEN PUMPING, TYPE OF PUMP USED.

PUMP INSTALLED form with fields for DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED, PLACE, CAPACITY, GALLONS PER MINUTE, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT.

NUMBER OF UNSUCCESSFUL WELLS, WELL HYDROFRACTURED

CIRCLE APPROPRIATE LETTER A, E, P

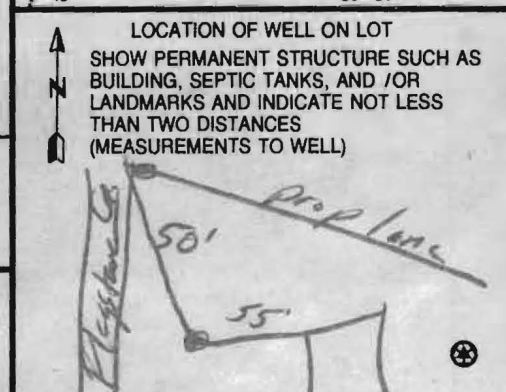
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"

DRILLERS LIC. NO., DRILLER'S SIGNATURE, LIC. NO.

DEPTH (nearest ft.) table with columns for depth ranges and diameter of screen.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)



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

TELESCOPE CASING, LOG INDICATOR, OTHER DATA

B 1 1911

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER HD-95-0623 fill in this form completely

505686 please type

Date Received (APA)

OWNER INFORMATION

WARD Andrew 7809 Flagstone Ct. Ellicott City MD 21043

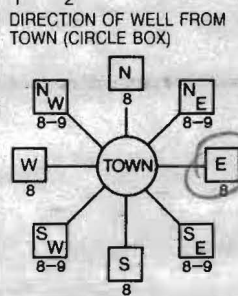
B 3 HOWARD LOCATION OF WELL

8 COUNTY 21 Rockburn Township 23 SUBDIVISION 42 52 NEAREST TOWN 71

DRILLER INFORMATION

DAVID KELLY MWD 304 Jones Well Drilling Inc 3700 Bush Rd. Jarrettsville, MD 21084

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



7809 Flagstone Ct. NEAR WHAT ROAD ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) DISTANCE FROM ROAD ENTER FT OR MI TAX MAP: 31 BLK: 22 PARCEL 793

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)

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 2 holes closed loop

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

HOWARD COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED CO SIGNATURE EXP. DATE NORTH GRID EAST GRID

APPROXIMATE DEPTH OF WELL 400 FEET APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary DRIVE-POINT

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 DEEPEM AN EXISTING WELL

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER

WRITE THE BOX NUMBER FROM THE MAP HERE E 8602 N 50X3

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)

APPROX. PERMIT NUMBER PERMIT No. HD-95-0623

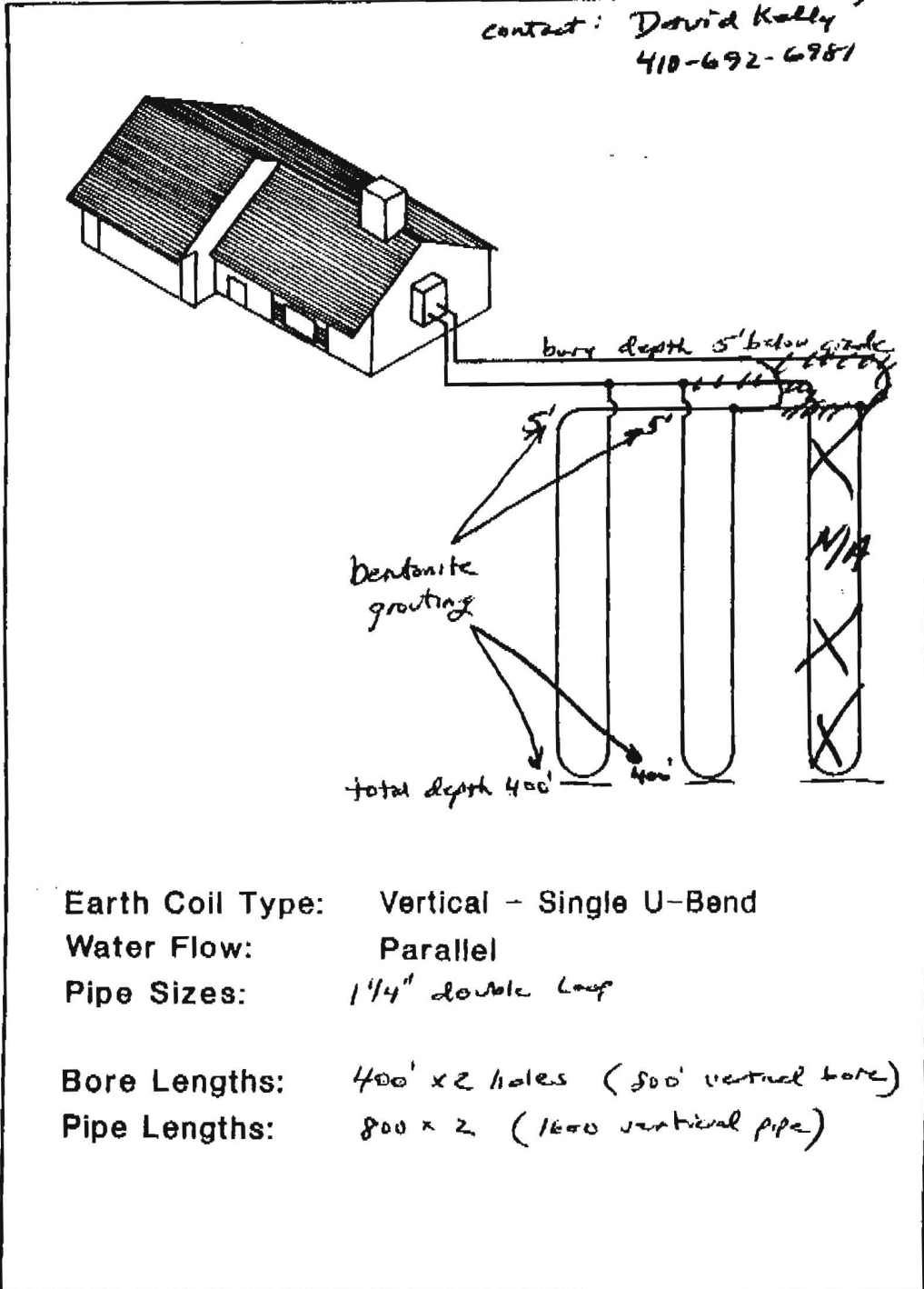
SPECIAL CONDITIONS APPROVED grant only - Bottom to Top

ction Four

owner : Andrew WARD
7809 Flagstone Ct.
Ellicott City, MD 21043

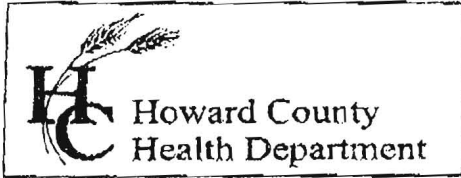
HVAC
Contractor: Ground Loop Htg & Air
contact: Mike Cushman
410-836-1706

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



Earth Coil Type: Vertical - Single U-Bend
 Water Flow: Parallel
 Pipe Sizes: 1 1/4" double Loop
 Bore Lengths: 400' x 2 holes (500' vertical bore)
 Pipe Lengths: 800 x 2 (1600 vertical pipe)

FIGURE 4.5: Parallel Vertical Ground Heat Exchanger



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:
Rockburn Township 7809 Flagstone Ct.
 Subdivision/Property Name Lot# Road Name

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

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