

C1 2836

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.

DATE Received MM DD YY

10 27 09

2x 22 400 26 (TO NEAREST FOOT)

FROM "PERMIT TO DRILL WELL" Ho - 95 - 1818

OWNER Sullivan last name Daniel STREET OR RFD 1536 Flamerwood Drive TOWN Clarksville SUBDIVISION 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

Soft Brown 0 40 Med. Brown 40 80 Hard Gray 80 400

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N

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

NO. OF BAGS 24 NO. OF POUNDS 1200

GALLONS OF WATER 504

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 400 ft.

(enter 0 if from surface)

CASING RECORD

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) diameter inch depth (feet) from to

SCREEN RECORD

ST STEEL BR BRASS PL PLASTIC HO OPEN HOLE OT OTHER

DEPTH (nearest ft.)

E 1 8 9 11 15 17 21 A 2 23 24 26 30 32 36 S 3 38 39 41 45 47 51 R 38 39 41 45 47 51 E SLOT SIZE 1 2 3 N DIAMETER OF SCREEN (NEAREST INCH) 56 60 from to

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 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 29

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

PUMP HORSE POWER 37 41

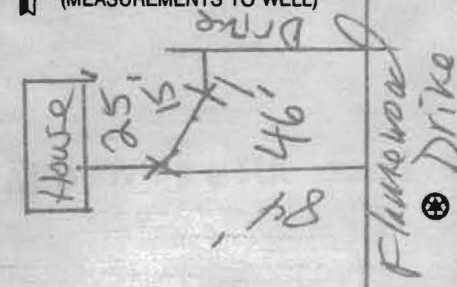
PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height)

LAND SURFACE (+ above - below) (nearest foot) 49 51

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 Y 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 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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. 1 M D 304

DRILLERS SIGNATURE David Kelly

LIC. NO. 1 D 897

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

B 1 6242

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 531934 please type

STATE PERMIT NUMBER

110-95-1818 fill in this form completely

Date Received (APA)

OWNER INFORMATION

SULLIVAN Daniel 7536 Flamewood Drive Clarksville MD 21029

B 3

LOCATION OF WELL

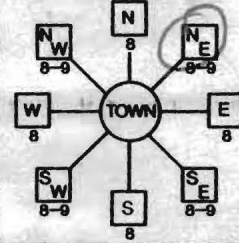
Howard COUNTY 21 Flamewood 23 SUBDIVISION 3 SECTION 44 46 LOT 9 block "D" 48 50 52 NEAREST TOWN Fulton 57 71 MILES FROM TOWN 3 M I 73 76 77 78

DRILLER INFORMATION

David Kelly M W D 304 Jones Well Drilling, Inc 3700 Rush Rd. Jarr. MD 21084 David Kelly 9-22-09

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



7536 Flamewood Dr. 11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 80 37 DISTANCE FROM ROAD FT 38 39

TAX MAP: 41 BLK: PARCEL 415

WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 8 0 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 0 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 holes closed loop

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME 17 COUNTY NO. STATE SIGNATURE INSERT S DATE ISSUED 5/27/07 DATE EXP. DATE 7/27/19 CO SIGNATURE NORTH GRID 4182 000 EAST GRID 0825 000 50 55 57 63

APPROXIMATE DEPTH OF WELL 400 FEET 24 28 APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

METHOD OF DRILLING (circle one)

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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

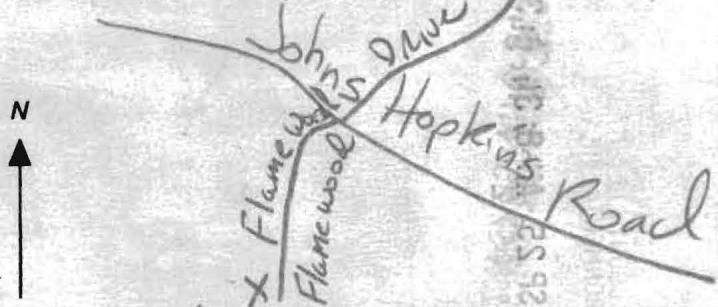
- 1. 2. 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 8265 N 4802

000 000

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



REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

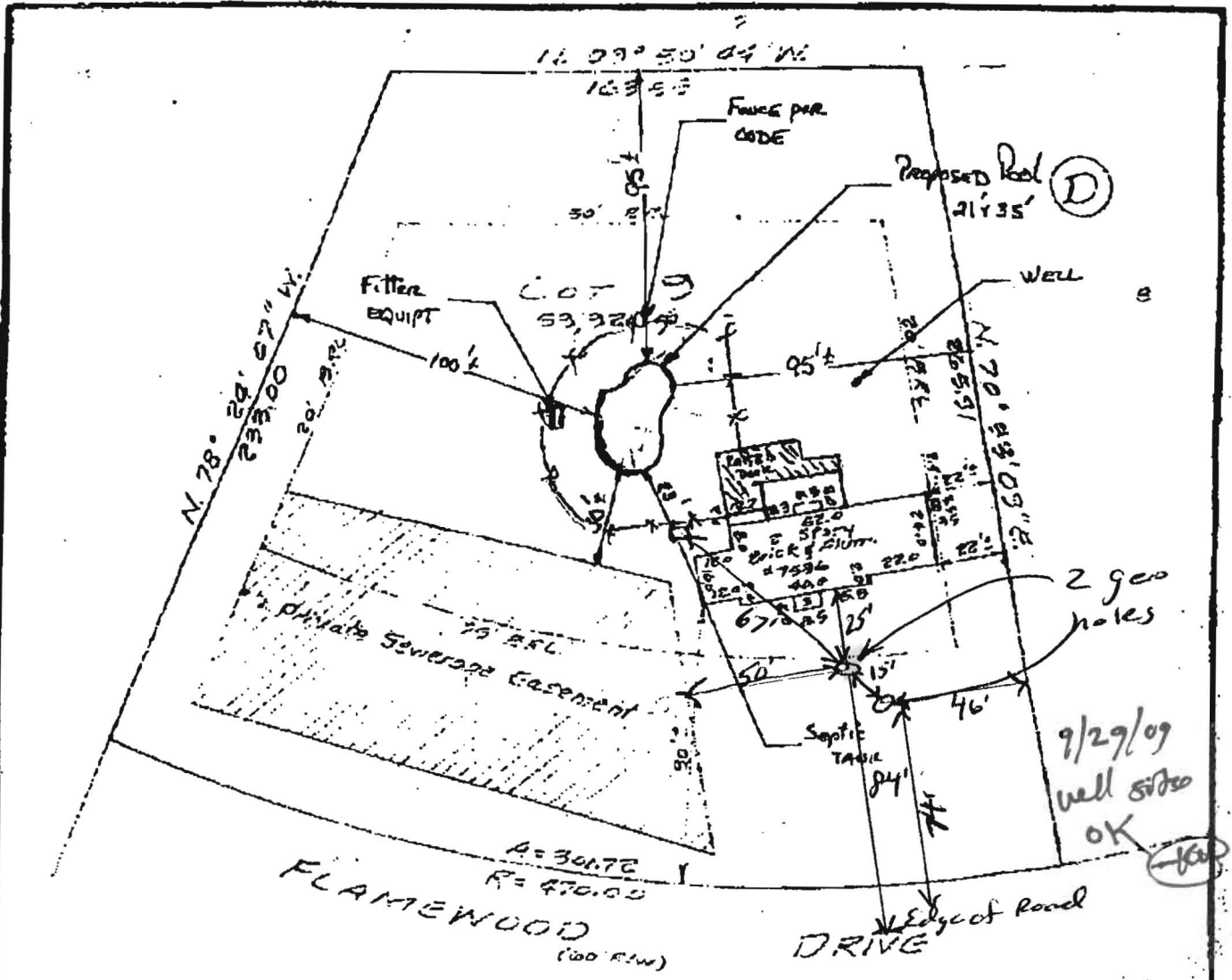
- N THIS WELL WILL NOT REPLACE AN EXISTING WELL Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEM AN EXISTING WELL

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

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

APPROP. PERMIT NUMBER G PERMIT No. 110-95-1818

SPECIAL CONDITIONS Drill bores per locations approved. Call H.D. Location's change!!



HOUSE LOCATION
 LOT 9 BLOCK D
 SECTION 3 AREA 1
 FLAMEWOOD
 HOWARD COUNTY, MD.

CERTIFICATION

I HEREBY CERTIFY THAT THE POSITION OF ALL THE EXISTING IMPROVEMENTS ON THE ABOVE DESCRIBED PROPERTY HAS BEEN CAREFULLY ESTABLISHED BY A TRANSIT-TAPE SURVEY AND THAT UNLESS OTHERWISE SHOWN, THERE ARE NO ENCROACHMENTS.

[Signature]
 W. STANLEY MACHEN, REGISTERED
 LAND SURVEYOR MARYLAND 2097

OFFICE OF
 W. STANLEY MACHEN
 REGISTERED LAND SURVEYOR
 4328 FARRAGUT STREET
 HYATTSVILLE, MARYLAND

Scale
 OFF
 1" = 54'

UNION 4-5115

Scale: 1" = 50'

PLAT REFERENCE:

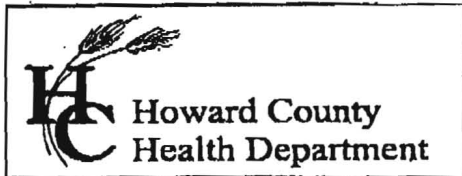
DATE:

FILE NO.:

3887

3-16-81

R-3018



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:

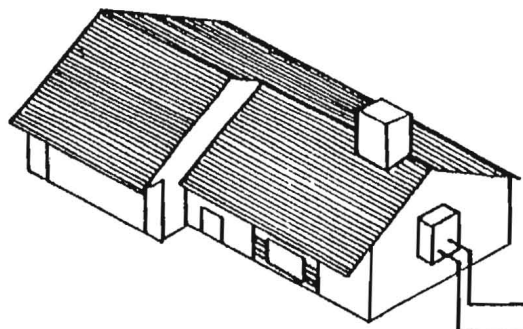
Flamewood 9 7536 Flamewood Drive
 Subdivision/Property Name Lot# Road Name

- 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.

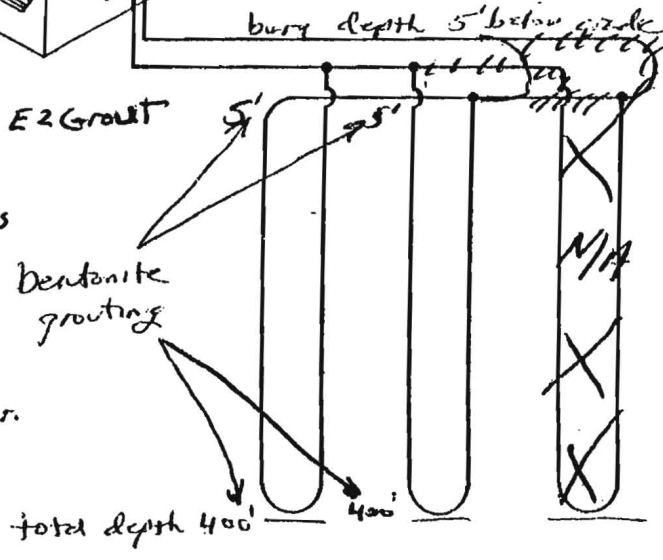
This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/05

Driller: Jones Well Drilling Inc.
 contact: David Kelly
 410-692-6987



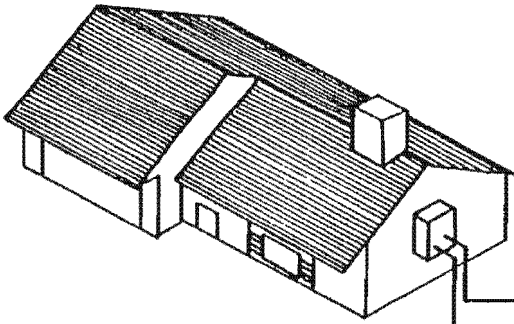
Wyo-Ben bentonite-E2 GROUT
 (50 lb. bags)
 mixed with 24 gallons
 of water per
 manufacturer specs
 yields 27 gal. slurry
 with a 0.42 btu/ft-hr.
 thermal conductivity



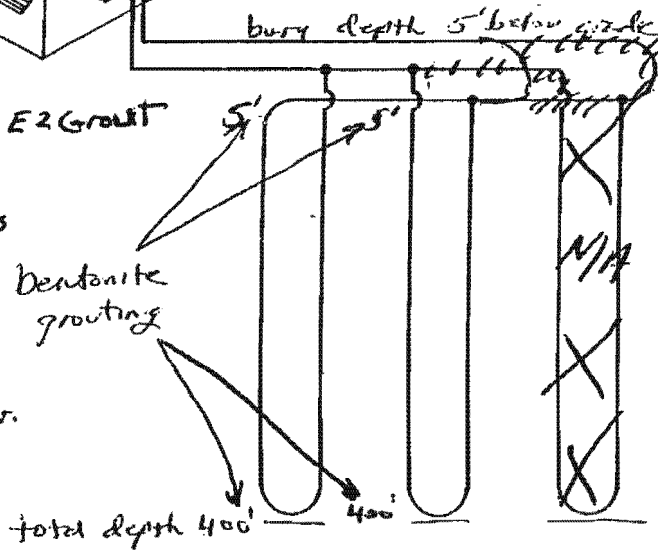
Earth Coil Type: Vertical - Single U-Bend
 Water Flow: Parallel
 Pipe Sizes: 1 1/4" double Loop
 Bore Lengths: 400' x 2 holes (800' vertical bore)
 Pipe Lengths: 800 x 2 (1600 vertical pipe)

FIGURE 4.5: Parallel Vertical Ground Heat Exchanger

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



Wyo-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/hr.
thermal conductivity



Earth Coil Type: Vertical - Single U-Bend

Water Flow: Parallel

Pipe Sizes: 1 1/4" double Loop

Bore Lengths: 400' x 2 holes (800' vertical bore)

Pipe Lengths: 800' x 2 (1600' vertical pipe)

FIGURE 4.5: Parallel Vertical Ground Heat Exchanger