

C1 4142 (MDE USE ONLY)

STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPE

WELL IS COMPLETED.  
COUNTY NUMBER A50830BB

ST/CO USE ONLY  
DATE RECEIVED  
MM 12 DD 28 YR 99

DATE WELL COMPLETED  
MM 1 DD 20 YR 99  
Depth of Well  
425  
(TO NEAREST FOOT)

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"  
HO-94-1939

OWNER Brantwood LLC last name Lancelot Cross first name  
TOWN Ellicott City MD  
STREET OR RFD  
SUBDIVISION Brantwood SECTION LOT 30

**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	
BROWN SHALE	0	70	
BLUE SLATE	70	425	✓

WATER AT 117-390

**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 18 NO. OF POUNDS 1692  
GALLONS OF WATER 108  
DEPTH OF GROUT SEAL (to nearest foot)  
from 0 ft. to 80 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)! 6  
Total depth of main casing (nearest foot) 81

**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 BRONZE HO OPEN HOLE  
PL PLASTIC OT OTHER

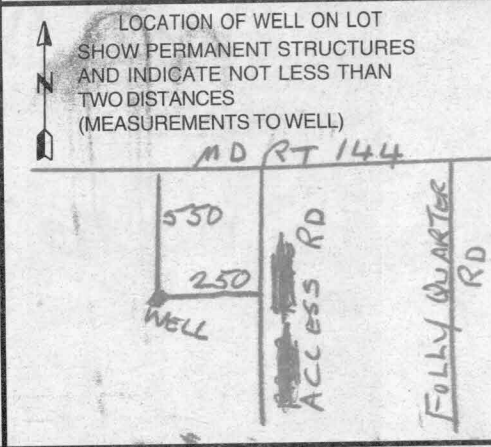
**C 2**  
DEPTH (nearest ft.)  
1 HO 2 80 3 425  
A 8 9 11 15 17 21  
C 23 24 26 30 32 36  
S 38 39 41 45 47 51  
E  
N  
SLOT SIZE 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_  
DIAMETER OF SCREEN (NEAREST INCH)  
56 60  
from to

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

**C 3**  
PUMPING TEST  
HOURS PUMPED (nearest hour) 6  
PUMPING RATE (gal. per min.) 3.5  
METHOD USED TO MEASURE PUMPING RATE TIME  
WATER LEVEL (distance from land surface)  
BEFORE PUMPING 46 ft.  
WHEN PUMPING 130 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 (CIRCLE) (YES or NO) YES 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) \_\_\_\_\_  
PUMP HORSE POWER \_\_\_\_\_  
PUMP COLUMN LENGTH (nearest ft.) \_\_\_\_\_  
CASING HEIGHT (circle appropriate box and enter casing height)  
+ above } LAND SURFACE  
- below } \_\_\_\_\_ (nearest foot)



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 MWD 139  
Robert Colme  
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 MWD 168  
Rick Fogle

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

1. **8828** SEQUENCE NO. (MDE USE ONLY)

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

STATE OF MARYLAND  
**PERMIT TO DRILL WELL**  
 please print or type

STATE PERMIT NUMBER  
**HO-94-1939**  
 fill in this form completely

Date Received (APA) 1/3/90

**OWNER INFORMATION**

8 MM DD YY 13  
01/03/90

15 Last Name Howard LLC Owner First Name Howard 34

36 Street or RFD 3535-P Columbia ICC Parkway 55

57 Town Columbia, Md. 70 State MD 72 Zip 21045 76

**LOCATION OF WELL**

B 3 Howard

8 COUNTY Howard 21

23 SUBDIVISION Forge Property 42

SECTION 44 46 LOT 30 48 50

52 NEAREST TOWN Pure Shepard Meadows 71

MILES FROM TOWN (enter 0 if in town) 2 M I 73 76 77 78

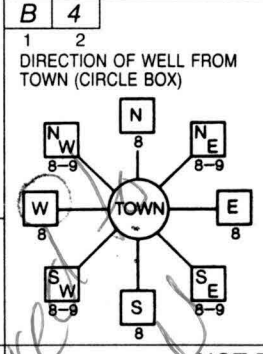
**DRILLER INFORMATION**

Driller's Name Nauman, David MWD 511 76 License No. 511 81

Firm Name Williams of Maryland, Inc.

Address 10/06/78

Signature David Nauman Date 10/06/78



CANCELLED CROSS

11 NEAR WHAT ROAD RT 144 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 550 37 DISTANCE FROM ROAD FT 38 39

TAX MAP: \_\_\_\_\_ BLK: \_\_\_\_\_ PARCEL \_\_\_\_\_

B 2 **WELL INFORMATION**

APPROX. PUMPING RATE (GAL. PER MIN.) 10 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20

**USE FOR WATER (CIRCLE APPROPRIATE BOX)**

HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

22  INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)

PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE APPROVAL)

TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard Co COUNTY NAME COUNTY NO. A508301B

STATE SIGNATURE \_\_\_\_\_ INSERT S → 41

DATE ISSUED 10/26/90 EXP. DATE 10/26/99

43 MM DD YY 48 CO SIGNATURE \_\_\_\_\_ EXP. DATE \_\_\_\_\_

NORTH GRID 520 50 0 0 0 55 EAST GRID 820 57 0 0 0 63

APPROXIMATE DEPTH OF WELL 200 FEET 24 28

APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

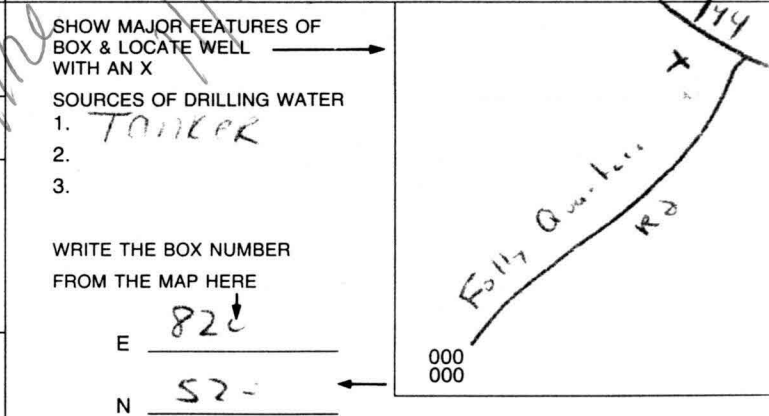
**METHOD OF DRILLING (circle one)**

BORED (or Augered)  JETTED  Jetted & DRIVEN

30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)

37 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

39  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

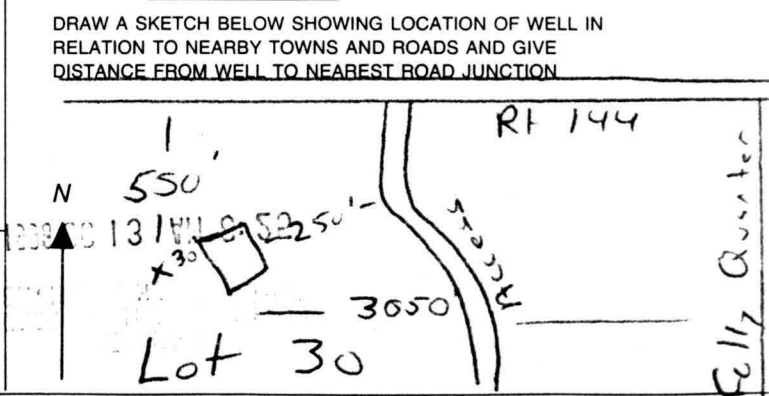
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 \_\_\_\_\_ 52

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

APPROP. PERMIT NUMBER 54 G A P \_\_\_\_\_ 63

WRITE INITIALS IN BOX PERMIT No. HO-94-1939

FORCE 1101 67 68



8626

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL please print or type

STATE PERMIT NUMBER

40-94-1939 fill in this form completely

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

Date Received (APA) 10/13/98

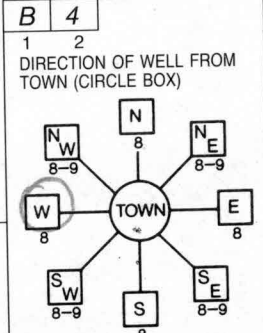
OWNER INFORMATION

Brantwood LLC, 8835-P Columbia 100 Parkway, Columbia, MD. 21045

LOCATION OF WELL: Howard County, Feaga Property, Section 44-46, Lot 30, Pine Orchard Meadows, 2 miles from town.

DRILLER INFORMATION

Driller's Name: Hartman, David M W D 517; Firm Name: A.C. Schuites of Maryland, Inc.; Address: 504 South River Road, Edgewater, MD. 21037; Signature: Simon B. Hartman; Date: 10/06/98



DIRECTION OF WELL FROM TOWN (CIRCLE BOX): LANCELOT CROSS, MD RT. 144, NEAR WHAT ROAD, ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX): SOUTH, DISTANCE FROM ROAD: 550 FT, TAX MAP: BLK: PARCEL:

WELL INFORMATION: APPROX. PUMPING RATE (GAL. PER MIN.): 10; AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY): 800

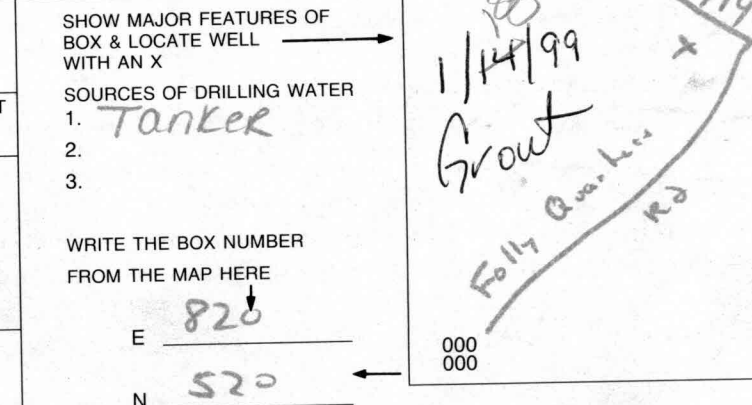
- USE FOR WATER (CIRCLE APPROPRIATE BOX): [D] HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY), [F] FARMING, [I] INDUSTRIAL, [P] PUBLIC OR PRIVATE WATER COMPANY, [T] TEST, OBSERVATION, MONITORING

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL: Howard Co, A50830BB, STATE SIGNATURE, DATE ISSUED: 10/26/98, CO SIGNATURE: A. McMillen, EXP. DATE: 10/26/99, NORTH GRID: 520 000, EAST GRID: 820 000

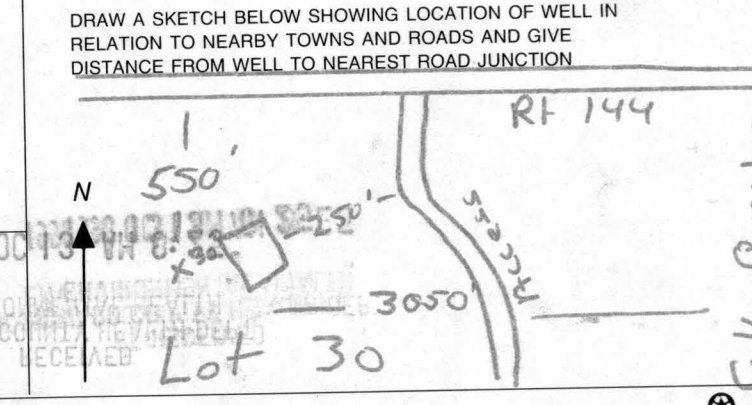
APPROXIMATE DEPTH OF WELL: 200 FEET; APPROXIMATE DIAMETER OF WELL: 6"

METHOD OF DRILLING (circle one): AIR-ROTary, JETTED, ROTARY (Hydraulic Rotary), DRIVE-POINT

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



Not to be filled in by driller (MDE OR COUNTY USE ONLY): APPROP. PERMIT NUMBER: 54; FORCE: AM; PERMIT No.: 40-94-1939



FIELD DATA SHEET  
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94 1939  
 Location of property (road) Lancelot Cross  
 Subdivision Brantwood I Lot 30 Block      Plat      Sec. I  
 Well Driller David Hartman Owner Brantwood LLC

Depth of well 425  
 Distance of measuring point (M.P.) above ground 1  
 Static water level (S.W.L.) below M.P. 46

I. High rate pumping -- reservoir drawdown

Time pump started 8:30 Pumping rate 10  
 Total time 30 MIN to reach pumping water level 130 ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
8:30	46	30 SECONDS		10
8:45	98	30 "		10
8:59	128	30 "		10
9:00	130	1 MIN 25 SEC		3.5
9:15	130	1 MIN 25 SEC		3.5
9:30	130	1 MIN 25 SEC		3.5
9:45	130	1 MIN 25 SEC		3.5
10:00	130	1 MIN 25 SEC		3.5
10:15	130	1 MIN 25 SEC		3.5
10:30	130	1 MIN 25 SEC		3.5
10:45	130	1 MIN 25 SEC		3.5
11:00	130	1 MIN 25 SEC		3.5
11:15	130	1 MIN 25 SEC		3.5
11:30	130	1 MIN 25 SEC		3.5
11:45	130	1 MIN 25 SEC		3.5
12:00	130	1 MIN 25 SEC		3.5
12:15	130	1 MIN 25 SEC		3.5
12:30	130	1 MIN 25 SEC		3.5
12:45	130	1 MIN 25 SEC		3.5
1:00	130	1 MIN 25 SEC		3.5
1:15	130	1 MIN 25 SEC		3.5
1:30	130	1 MIN 25 SEC		3.5
1:45	130	1 MIN 25 SEC		3.5
2:00	130	1 MIN 25 SEC		3.5

DATE 7-20-99WELL YIELD TEST DATA SHEET - FREDERICK COUNTY  
HOWARD

REVIEWED BY \_\_\_\_\_

Maryland Well Permit No. HO-94-1939 Owner or Applicant BRANTWOOD LLCLocation of Property (road) LANCEROT CROSSSubdivision BRANTWOOD I Lot 30 Block \_\_\_\_\_ Plat \_\_\_\_\_ Sec. 1Depth of Well 425 Height of Measuring Point Above Ground 1Static Water Level Below Measuring Point 46

The first entry in the table must be when you begin the drawdown. Enter all appropriate information. Indicate when the drawdown phase ends and the recovery test begins.

TIME (CHRON.)	WATER LEVEL Below M.P.	PUMPING RATE Time to fill <u>5</u> gal. bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per min.)
<u>2:15</u>	<u>130</u>	<u>1 MIN 25 SEC</u>		<u>3.5</u>
<u>2:30</u>	<u>130</u>	<u>1 MIN 25 SEC</u>		<u>3.5</u>
<u>2:45</u>	<u>130</u>	<u>1 MIN 25 SEC</u>		<u>3.5</u>
<u>3:00</u>	<u>130</u>	<u>1 MIN 25 SEC</u>		<u>3.5</u>

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WATER AND SEWERAGE PROGRAM  
TEL: (410)313-2640 FAX: (410)313-2648

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: ROBERT L FEZLER CO INC Telephone #: 410-781-4655  
Address: 6321 BARNETT AVE  
SHILLISTON, MD 21784

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:  
Name (Print): ROBERT L FEZLER License# 2122

\*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: NV HOMES Telephone #: 410-721-4703  
Subdivision: Brantwood Lot #: 29 Well Tag #: HO-94-1939 (1939)  
Site Address: 3016 LANCLOT CROSS  
ELLICOTT CITY

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit  
Make: RED JACKET Make: B11 Two piece watertight cap:   
Model #: 8516 Model#: \_\_\_\_\_ Screened, vented well cap:   
Pump Capacity 8 GPM Depth: 42 (36" min) Cap secured to casing:   
Well Yield: 3.5 GPM NSF approved:  Conduit min 18" B.G.:   
Depth of well encountered at time of pump installation: \_\_\_\_\_ (feet) Conduit secured to well cap:   
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4  
Torque arrestors or Cable guards are required - Must circle one  
Safety rope, if used, attached to inside of well casing with eye bolt

Piping to house House Connection  
Type: POLY FVC sleeved to undisturbed soil at wall penetration:   
PSI: 160 (160 psi min) Approximate length of sleeve: 5  
Depth of supply line: 42 (36" min) Sleeve caulked and sealed properly:

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: Robert L Fezler date: 9/27/01

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 9/19/01 Date Insp. Approved: 9/19/01 (BB) SR9  
Inspection Data: Pitless adapter and water supply line at least 36" below grade   
Two piece cap installed and attached to casing securely   
Elec. conduit extends at least 18" below grade/attached to cap properly   
Safety rope installed inside of well casing   
Correct well tag attached properly and casing 8" above finished grade   
Water supply line sleeved adequately at house connection   
Adequate grout observed below pitless adapter

Section Two

No longer (29)  
1/22/98  
Will site  
OK as  
stated  
All

Section One LINE SHEET  
MATCH LINE SEE THIS SHEET

Final is (29)

QUINTIN FERGUSON and WIFE  
Libert 227 Folio 385

