

C1 04005

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER A57313

ST/CO USE ONLY DATE Received MM DD YY

DATE WELL COMPLETED MM DD YY 07 16 98

Depth of Well 22 185 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-1611

OWNER Catonsville Builders STREET OR RFD Sycamore Valley Run TOWN Glenwood SUBDIVISION Deylin Prop SECTION LOT 16

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. Rows include Top Soil, Sandy, Sand Stone, MICKA, Sand Stone, MICKA, Sand Stone, MICKA.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (C) (M) (B) (C) NO. OF BAGS 6 NO. OF POUNDS 600 GALLONS OF WATER 36 DEPTH OF GROUT SEAL 0 ft.

CASING RECORD

MAIN CASING TYPE (S) (T) (P) (L) (O) (T) Nominal diameter top (main) casing 6 Total depth of main casing 21

OTHER CASING (if used)

Table for OTHER CASING with columns: diameter inch, depth (feet) from, to.

SCREEN RECORD

screen type or open hole (S) (T) (B) (R) (H) (O) (P) (L) (O) (T) (O) (T) (O) (T)

DEPTH (nearest ft.)

Table for DEPTH with columns: 1-21, 23-36, 38-51. Includes SLOT SIZE and DIAMETER OF SCREEN.

C 3

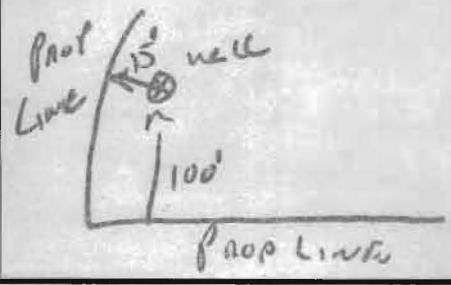
PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 12 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 27 WHEN PUMPING 30 TYPE OF PUMP USED (for test) C centrifugal

PUMP INSTALLED

DRILLER WILL INSTALL PUMP YES (NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED (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) (+) above LAND SURFACE (-) below 2 (nearest foot)

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...

DRILLERS LIC. NO. 1 M SD 116 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 M SD 17

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 4755
1 2 3 6

SEQUENCE NO.
(MDE USE ONLY)

STATE OF MARYLAND
PERMIT TO DRILL WELL
please print or type

STATE PERMIT NUMBER

HO-94-1611
70 fill in this form completely 79

Date Received (APA)
062998
8 MM DD YY 13

OWNER INFORMATION

15 Last Name Owner First Name 34
CATTOWNSVILLE Home's Builders
36 Street or RFD 55
9025 M. Chevrolet Dr.
57 Town 70 State 72 Zip 76
ELlicott City MD. 21042

B 3 LOCATION OF WELL

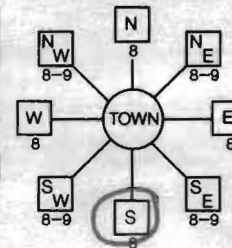
8 COUNTY 21 Howard
23 SUBDIVISION 42 Deulin Prop
SECTION 44 46 LOT 48 50 16
52 NEAREST TOWN 71 GLENWOOD
MILES FROM TOWN (enter 0 if in town) 73 76 77 78 1 M I

DRILLER INFORMATION

76 Driller's Name License No. 81
Ralph Mayne M S D 116
Firm Name
Ralph Mayne Well Drilling
Address
9120 Brown Church Rd Mt Airy
Signature Date
Ralph Mayne June 18 1998

B 4

1 2
DIRECTION OF WELL FROM
TOWN (CIRCLE BOX)



11 NEAR WHAT ROAD 30
SYCAMORE VALLEY Road

ON WHICH SIDE OF ROAD
(CIRCLE APPROPRIATE BOX)
34 37
DISTANCE FROM ROAD 700 FT
ENTER FT OR MI 38 39
TAX MAP: _____ BLK: _____ PARCEL _____

B 2 WELL INFORMATION
APPROX. PUMPING RATE 5
(GAL. PER MIN.) 8 12
AVERAGE DAILY QUANTITY NEEDED 500
(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

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

Howard Co A57313
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S
DATE ISSUED 063098 A McMill 063098
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID 522 000 EAST GRID 790 000
50 55 57 63

APPROXIMATE DEPTH OF WELL 150 FEET
24 28
APPROXIMATE DIAMETER OF WELL 64 INCH
NEAREST INCH

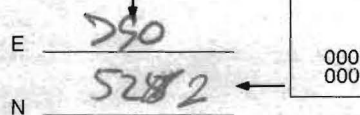
SHOW MAJOR FEATURES OF
BOX & LOCATE WELL WITH AN X
SOURCES OF DRILLING WATER
1. well
2.
3.

quest 9:00 7-16-98
NO INSP
AM

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 _____

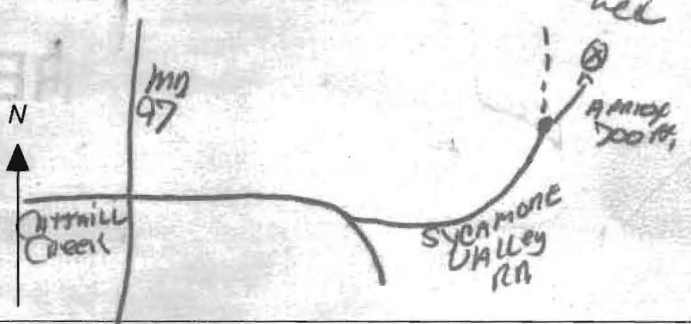
WRITE THE BOX NUMBER
FROM THE MAP HERE



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 DEEPEMED AN EXISTING WELL
- PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52

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 54 G A P 63
PERMIT No. HO-94-1611
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WELL & SEPTIC PROGRAM
TEL: (410)313-1771 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: Shelton Plumbing Telephone #: 410 715-2127
Address: 1713 Green Valley Rd
Union Bridge, MD 21791

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): George Shelton, Jr License# 16905

*A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.

Name of Property Owner: Forty West Builders Telephone #: 410 418-8900
Subdivision: Catfish Creek Lot #: 16 Well Tag #: HO-99-1011
Site Address: 3819 Championship Drive
Glenwood, MD 21738

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Franklin Make: Coppert Two piece watertight cap:
Model #: Submer 75 Model#: 18112 Screened, vented well cap:
Pump Capacity 15 GPM Depth: 36" (36" min) Cap secured to casing:
Well Yield: 15 GPM NSF/WSC approved: Conduit min 18" B.G.:
Depth of well encountered at time of pump installation: 175 (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, Cable guards, or other acceptable method used- Must circle one
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing

Piping to house House Connection
Type: PVC PVC sleeve to undisturbed soil at wall penetration:
PSI: 160 (160 psi min) Length of sleeve (3' minimum from foundation): 5ft
Depth of supply line: 40" (36" min) Sleeve sealed properly:

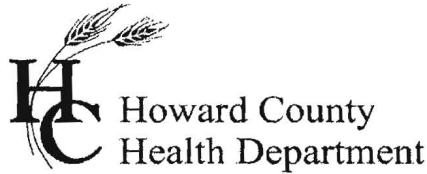
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: [Signature] date: 5-15-11

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

Date Insp. Requested: _____ Date Insp. Approved: 5/3/11 Inspector: (MJ)
Inspection Data: Pitless adapter watertight & 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 not outside of well cap/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

Rocky -
Must Use
Special
Precautions
When
Back Filling



Bureau of Environmental Health
7178 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

Peter Beilenson, M.D., M.P.H., Health Officer

July 18, 2011

Homeowner
3819 Championship Drive
Glenwood, MD 21738

RE: Sycamore Valley - Lot 16
3819 Championship Drive
BP #: B11000087
Well Tag: HO-94-1611

Dear Homeowner:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 07/05/2011. Final approval of the well line connection to the dwelling was approved on 05/03/2011.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were found to be in compliance with COMAR water quality standards.

Enclosed with this certificate, is a copy of the septic permit and the as-built along with important information regarding the use and maintenance of your septic system. Please read through carefully and thoroughly. Any questions regarding your well and/or septic, please call this office for guidance 410-313-1771.

INTERIM CERTIFICATE OF POTABILITY

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #HO-94-1611. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 07/06/2011, 07/12/2011
Date of Well Completion: 07/16/1998

Approving Authority,

Brian Baker
Brian Baker, R. S.
Environmental Sanitarian
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 80341 Account #: 1935
Reference: Cattail Creek Lot 16 Company: Forty West Builders
Location: 3819 Championship Drive Requested By: John Walter
Glenwood, MD 21738 Source: Well Water
Date/ Time Collected: 7/12/2011 1425 Site: Laundry Sink
Date/Time Rec'd: 7/12/2011 1550 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 5.3
Collected By: C. Mooshian 7268CM Well #: HO-94-1611

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	7/13/2011 / 1030 / KME
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	7/13/2011 / 1030 / KME

NOTES

- 1 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 2 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 3 ND;None Detected
- 4 Visual well check: Sealed, vented cap
- 5 pH and Chlorine level tested on site

Reason for Test : Use & Occupancy retest

Date Reported: 7/13/2011

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.
 143 Old Taberytown Rd., Westminster, MD 21157-1001 (410) 945-1000 (410) 945-1050 FAX (410) 945-1050

REPORT OF ANALYSIS

Laboratory ID #:	80239	Account #:	1935
Reference:	Cattail Creek Lot 16	Company:	Forty West Builders
Location:	3819 Championship Drive Glenwood, MD 21738	Requested By:	John Walter
Date/ Time Collected:	7/6/2011 0950	Source:	Well Water
Date/Time Rec'd:	7/6/2011 1130	Site:	Pressure Tank
Chlorine ppm:	Free: ND Total: ND	Treatment:	Prior to Sediment Filter
Collected By:	J. Yeager 6176JY	pH:	5.5
		Well #:	HO-94-1611

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME
Bacteria, Coliform, Total, MPN	13.7	MPN/ 100 ml	<1.0	SM18 9223	7/7/2011 / 0815 / CCH
Bacteria, E. coli, MPN	<i>Failed</i> <1.0	MPN/ 100 ml	<1.0	SM18 9223	7/7/2011 / 0815 / CCH
Nitrate	7.47	mg/L	10	601	7/6/2011 / 1800 / CCH
Turbidity	1.34	NTU	<10	SM18 2130B	7/6/2011 / 1245 / ccc
Sand	NS	mg/L	5	Visual/Gravimetric	7/6/2011 / 1245 / CCH

NOTES

- 1 mg/L = milligrams per liter (also, parts per million)
 - 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
 - 3 NS = None Seen (NS indicates less than 5 mg/L)
 - 4 NTU = Nephelometric Turbidity Units
 - 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
 - 6 ND:None Detected
 - 7 Visual well check: Sealed, vented cap
 - 8 pH tested on-site
- Reason for Test : Use & Occupancy
 Building Permit # : 11000087

Date Reported: 7/7/2011