

COUNTY

B 1 6458

SEQUENCE NO.
(MDE USE ONLY)STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

H0 - 95 - 0340

fill in this form completely

Date Received (APA)

3/11/06
8 MM DD YY 13

OWNER INFORMATION

Elm Street Development

15 Last Name Owner First Name 34

5094 Dorsey Hall Drive, Suite 104

36 Street or RFD 55

Ellicott City MD 21042

57 Town 70 State 72 Zip 76

DRILLER INFORMATION

Michael D. Isom M SD 162

Driller's Name 76 License No. 81

G. Edgar Hays Sons' Corp.

Firm Name

12047 Falls Road, Cockeysville 21030

Address

Signature Date 2/20/06

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 750

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

APPROXIMATE DEPTH OF WELL 250 FEET

APPROXIMATE DIAMETER OF WELL 6 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

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

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

APPROP. PERMIT NUMBER H02005G009(01)

PERMIT No. H0-95-0340

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

B 3

Howard

LOCATION OF WELL

8 COUNTY 21

Saddlebrook Farm

23 SUBDIVISION 42

SECTION 44 46 LOT 10 48 50

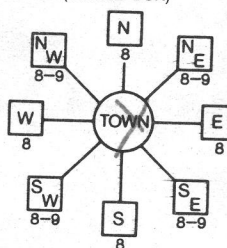
Woodstock

52 NEAREST TOWN 71

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

B 4

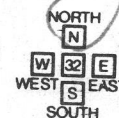
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Cavey Lane

11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 200 37 DISTANCE FROM ROAD

ENTER FT OR MI 38 39

TAX MAP: 11 BLK: 13 PARCEL 32

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

COUNTY NAME

STATE SIGNATURE

DATE ISSUED

4/11/06

43 MM DD YY 48

NORTH GRID 50 55

CO SIGNATURE

837

EAST GRID 57 63

INSERT S

4/11/07

EXP. DATE

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

1. well

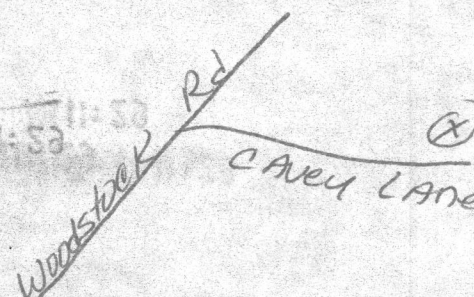
WRITE THE BOX NUMBER FROM THE MAP HERE

E 837

N 544

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

N



HARR WELL DRILLING

12047 FALLS ROAD
COCKEYSVILLE, MD 21030
410-252-4588

HOWARD COUNTY YIELD TEST REPORT

Date Test Performed: 5-31-06
Address: Cavey Lane
Owner Name: Elm Street Devel
Well Depth: 300 Ft

Permit Number: HO-95-0340
Subdivision: Saddlebrook Farm L#10
Election District:
Static Water Level: 43 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 5gallon bucket	Calculated Flow-Gallons Per Minute
1200	43 ft		17 sec	17.64
1215	67		17	17.64
1230	82		17	17.64
1245	99		17	17.64
1300	112		17	17.64
1315	112		17	17.64
1330	112		17	17.64
1345	112		17	17.64
1400	112		17	17.64
1415	112		17	17.64
1430	112		17	17.64
1445	112		17	17.64
1500	112		17	17.64

**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: J.A. Smith + Co. Inc. Telephone #: 410-796-7532
Address: 7080 Kit Kat Road
Eikridge MD 21075

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): J. Allen Smith Jr. License# 51581

*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: John Hinkle Telephone #: 410 206-8456
Subdivision: Saddlebrook Farm Lot #: 10 Well Tag #: HO-45-0340
Site Address: 10148 Saddlebrook Farm Trail
Woodstock, MD. 21163

Submersible Pump Data

Make: Goulds
Model #: 56507422C
Pump Capacity 7 GPM
Well Yield: 12.5 GPM

Pitless Adapter

Make: Martinson
Model #: B10X
Depth: 36 (36" min)
NSF approved: ✓

Well Cap and Electric Conduit

Two piece watertight cap: ✓
Screened, vented well cap: ✓
Cap secured to casing: ✓
Conduit min 18" B.G.: ✓
Conduit secured to well cap: ✓

Depth of well encountered at time of pump installation: 270' (feet)
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

Type: HD 160
PSI: ✓ (160 psi min)
Depth of supply line: ✓ (36" min)

House Connection

PVC sleeved to undisturbed soil at wall penetration: ✓
Approximate length of sleeve: 5'
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.

J.A. Smith
Signature of company representative responsible for installation

date

10/23/08

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

Date Insp. Requested: 11-3-08

Date Insp. Approved: 2/24/09 (KW) OK

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 ✓



Howard County
Health Department

3525 H Ellicott Mills Drive • Ellicott City, MD 21043
(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

ATTENTION WELL DRILLERS!!!

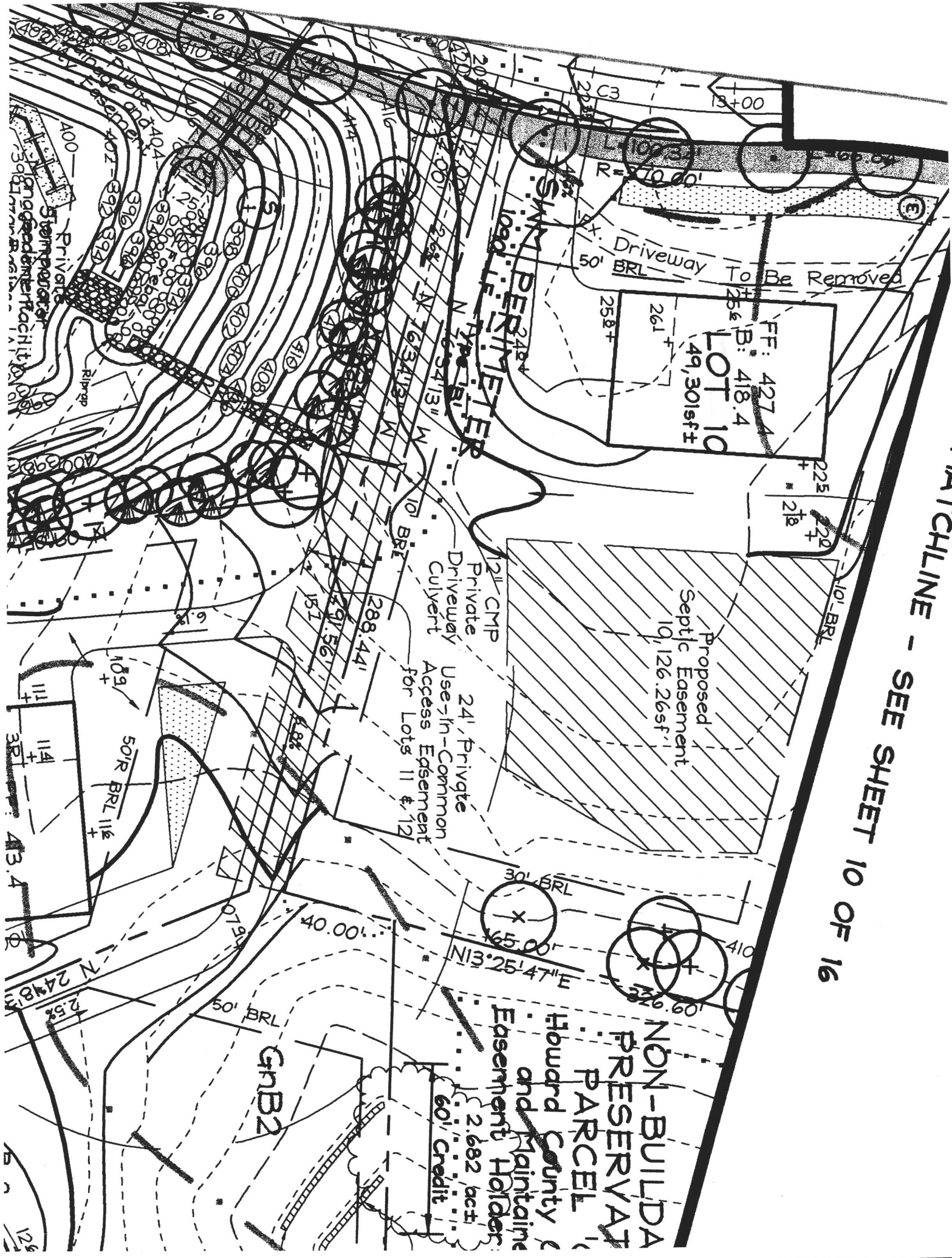
When submitting a well application for a new or replacement well, please indicate one of the following:

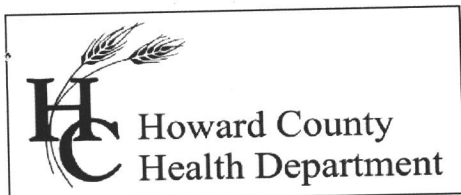
- ☒ The well site has been staked by FSH Inc
on Saddlebrook Farm and is ready for site inspection.
- ☐ _____ will call the Health Department
for a time to meet in the field to verify a well location.
- ☒ Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application.
This should help improve communication allowing a more timely
service for our citizens.

KN

ATCHLINE - SEE SHEET 10 OF 16





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

John N. Hinkle, Jr.
Jan Kirschner
P.O. Box 2092
Ellicott City, MD 21041

SENT BY FACSIMILE 410-379-2430

RE: Saddlebrook Farm, Lot 10
10148 Saddlebrook Farm Trail
Woodstock, MD 21163
BP #: B08001763
Well Permit # HO-95-0340

Dear Sir:

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 10/31/2008.** **Final approval of the well line connection to the dwelling was approved on 03/24/2009.**

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.

TEMPORARY INTERIM CERTIFICATE OF POTABILITY

This is a **Temporary Deviation** to allow additional time for radium testing and for the levels to meet EPA recommendations.

A Gross Alpha and Beta short term sample was collected on 5/31/2006. Results showed a Gross Alpha of 14.5 +/- 2.7 pCi/L and Gross Beta of 20.4 +/- 1.8 pCi/L. This is explained in more detail from the Radium letter issued June 30th, 2006 for the aforementioned property. In addition, a pretreatment device (reverse osmosis, water softener) needs to be installed and an agreement form for radium needs to be signed by the homeowner and health department official and representative.

This temporary deviation is good for **30 days** to allow time for radium testing. An Interim Certificate of Potability will be issued upon submission of a water sample report that documents a **Gross alpha, Gross Beta, short and long term (Before and after treatment), and Radium 226 and 228 tests that are within the EPA standards.**

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-95-0340. 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.**

The Health Department has no objection to the issuance of temporary Use and Occupancy for the above referenced property.

Date of Water Samples: 07/12/2007 & 08/13/2007
Date of Radium Tests: 5/21/2007, 8/14/2007 **GROSS ALPHA, GROSS BETA (Short and Long term pre/post treatment), RADIUM 226 and 228 TESTS PENDING**
Date of Well Completion: 03/28/2006

Approving Authority,


Kevin Wolf, Sanitarian
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File



Howard County
Health Department

Bureau of Environmental Health
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

June 30, 2006

Shalehearth L.C.
6820 Elm Street
Suite 200
McLean, Virginia 22101

RE: Saddlebrook Farm Lot 10
Well Tag: HO-95-0340

To Whom It May Concern:

A sample was collected from a yield test on May 31, 2006 and submitted to GPL Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. In turn, this can provide information regarding naturally occurring radiation (i.e., Radionuclides) that may exist in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of 14.5 ± 2.7 picocuries/liter (pCi/L); while the **Gross Beta** level was 20.4 ± 1.8 pCi/L. With the margin of error, the **Gross Alpha** result exceeded its maximum contaminant level (MCL) of 15 pCi/L, while the **Gross Beta** level was below its MCL of 50 pCi/L.

Since the **Gross Alpha** finding exceeded its MCL, additional testing for **Radium** will be necessary prior to occupancy to verify existing levels. Alternatively, you may install treatment designed to reduce **Gross Alpha**, **Gross Beta** and **Radium**, plus provide post treated results confirming that levels are in conformance with existing standards. Keep in mind that the standard potability parameters required for occupancy will still be needed.

A copy of the test results is enclosed for your information. Please call this office at 410-313-1773 if you have any further questions.

Sincerely,

Bert Nixon, Deputy Director
Bureau of Environmental Health

cc: Eric Dougherty, MDE Water Mgmt., Groundwater
Well & Septic File
Zac Fish, FSH Associates, 8318 Forrest St., E.C., MD 21043

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 #:	70558	Account #:	1930
Reference:	Feaga Construction Building	Company:	Fogle's Well Drilling
Location:	10148 Saddle Brook Farm Trail	Requested By:	Dave Fogle
	Woodstock, MD 21163	Source:	We'll Water
Date/ Time Collected:	3/24/2009 0900	Site:	Kitchen Sink Tap
Date/Time Rec'd:	3/24/2009 1454	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	6.3
Collected By:	V.M. Fadoul 6804VF-PS	Well #:	HO-95-0340

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	3/25/2009 / 0915 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	3/25/2009 / 0915 / CCH
Nitrate	2.91	mg/l.	10	601	3/24/2009 / 1500 / CCH
Turbidity	1.59	NTU	<10	SM18 2130B	3/24/2009 / 1600 / CCH
Sand	NS	mg/l.	5	Visual/Ciravimet	3/24/2009 / 1600 / 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 Sample collected by client, analyzed as received
- 8 pH tested on-site

Reason for Test : Use & Occupancy

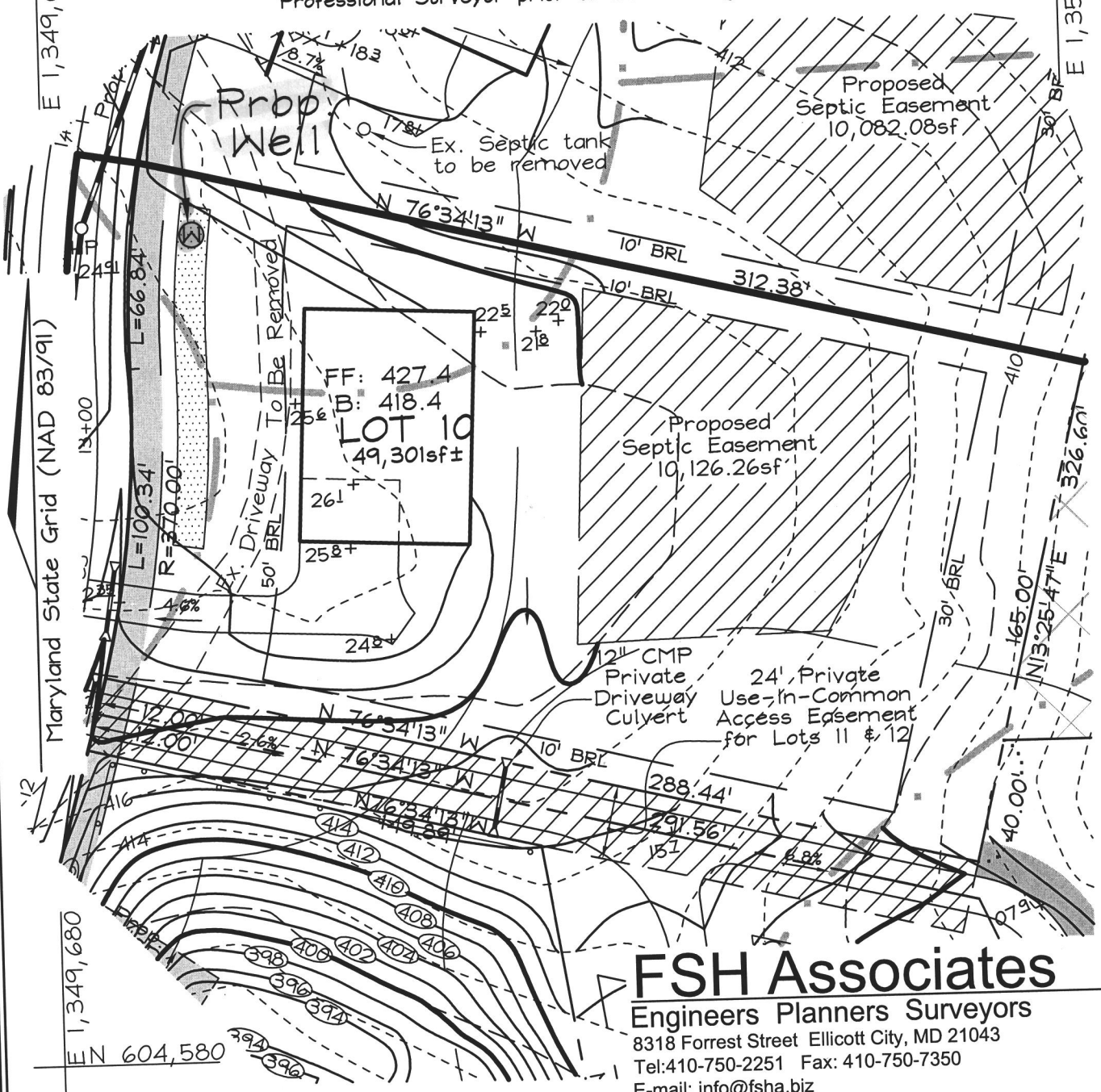
Building Permit # : BO8001763

Date Reported: 3/25/2009

N 604,940

N 604,940

Note:
The proposed well shown on this plan will be
staked out in the field by FSH Associates,
Professional Surveyor prior to well drilling.



FSH Associates

Engineers Planners Surveyors

8318 Forrest Street Ellicott City, MD 21043

Tel: 410-750-2251 Fax: 410-750-7350

E-mail: info@fsha.biz

DESIGN BY: PS
DRAWN BY: CD
CHECKED BY: ZYF
SCALE: 1"=50'
DATE: Mar. 13, 2006
W.O. No.: 3165
SHEET No.: 9 OF 11

WELL PERMIT PLAN SADDLEBROOK FARM

LOT 10

TAX MAP II GRID 13
3RD ELECTION DISTRICT

PARCELS 19 & 32
HOWARD COUNTY, MARYLAND