

C1 3728

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

COUNTY NUMBER

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

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL" -HO-95-0301

DATE RECEIVED MM DD YY

DATE WELL COMPLETED MM DD YY

DEPTH OF WELL (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER: J T S CORPORATION, last name Clarksville Pike (Md 108), first name Clarksville, TOWN Clarksville, STREET OR RFD, SUBDIVISION Machbeth Farm, SECTION, LOT 34

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 (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes handwritten entries for Brown mica Sandstone, Grey mica w/ Sandstone, Grey mica w/ Quartz, Sandstone, Grey mica, Sandstone, Grey mica w/ Quartz.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES [Y] NO [N]. TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC]. NO. OF BAGS 328 NO. OF POUNDS 3280. GALLONS OF WATER 228. DEPTH OF GROUT SEAL (to nearest foot) from 0 to 69 ft.

CASING RECORD

MAIN CASING TYPE [ST] Nominal diameter top (main) casing (nearest inch)! 6. Total depth of main casing (nearest foot) 80. OTHER CASING (if used) diameter inch, depth (feet) from to.

SCREEN RECORD

screen type or open hole [ST] [BR] [HO] [PL] [OT]. (insert appropriate code below)

DEPTH (nearest ft.)

Table with columns: 1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16, 17-18, 19-20, 21-22, 23-24, 25-26, 27-28, 29-30, 31-32, 33-34, 35-36, 37-38, 39-40, 41-42, 43-44, 45-46, 47-48, 49-50, 51-52, 53-54, 55-56, 57-58, 59-60, 61-62, 63-64, 65-66, 67-68, 69-70, 71-72, 73-74, 75-76, 77-78, 79-80. Includes handwritten entries for 78 and 600.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES [Y] NO [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.: MWD 040, DRILLERS SIGNATURE: George J. Federling, I.C. NO.: AWD 788

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

C 3

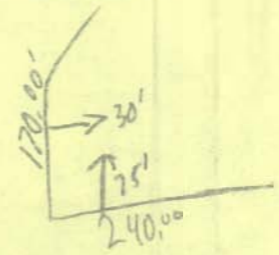
PUMPING TEST

HOURS PUMPED (nearest hour) 6. PUMPING RATE (gal. per min.) 1.3. METHOD USED TO MEASURE PUMPING RATE Bucket. WATER LEVEL (distance from land surface) BEFORE PUMPING 37 ft. WHEN PUMPING 227 ft. TYPE OF PUMP USED (for test) [S] submersible.

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES [X] 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) [ + ] above LAND SURFACE [ - ] below (nearest foot) 2.

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)



B 1 0768

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER HO-95-0301

1 2 3 6

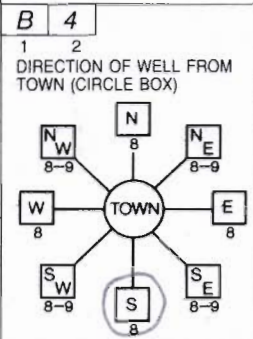
524124 please type

70 fill in this form completely 79

Date Received (APA) 02 24 06 OWNER INFORMATION 10189 J T S Corporation 8808 Centre Park Drive S209 Columbia, Md 21045

LOCATION OF WELL HOWARD COUNTY 21 Macbeth Farm Clarksville NEAREST TOWN

DRILLER INFORMATION George F. Easterday L. Franklin Easterday, Inc. 9265 Brown Church Rd., MT. Airy, Md. 21771



Clarksville Pike (Md 108) 500+ DISTANCE FROM ROAD

WELL INFORMATION APPROX. PUMPING RATE 5 AVERAGE DAILY QUANTITY NEEDED 500

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL HOWARD 13 AS18543

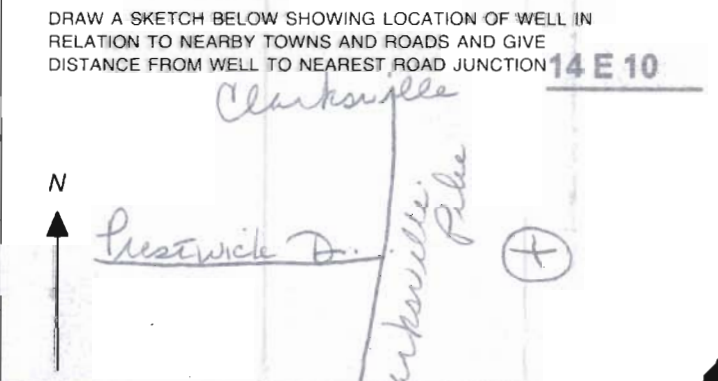
USE FOR WATER DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

APPROXIMATE DEPTH OF WELL 300 FEET APPROXIMATE DIAMETER OF WELL 6 INCH

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

METHOD OF DRILLING (circle one) BORED (or Augered) AIR-ROTary

REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX) THIS WELL WILL NOT REPLACE AN EXISTING WELL



Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROX. PERMIT NUMBER H02004G008(01) PERMIT No. HO-95-0301

SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

8:00

5/1/06

FIELD DATA SHEET  
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - HO - 95 - 0301  
 Location of property (road) CLARKSVILLE PIKE  
 Subdivision MACBETH FARMS Lot 34 Block \_\_\_\_\_ Plat \_\_\_\_\_ Sec. \_\_\_\_\_  
 Well Driller EASTERDAY Owner JTS CORP

Depth of well 600 1 gpm  
 Distance of measuring point (M.P.) above ground 2'  
 Static water level (S.W.L.) below M.P. 32'3"

I. High rate pumping -- reservoir drawdown

Pump set 380'

Time pump started 9:00 Pumping rate 15 gpm  
 Total time 95 min to reach pumping water level 226 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)
9:45	226'	45 sec	1 gal bucket	1.3 gpm
10:00	226'	45 "	"	1.3 "
10:15	226'	45 "	"	1.3 "
10:30	226'	45 "	"	1.3 "
10:45	226'	45 "	"	1.3 "
11:00	226'	45 "	"	1.3 "
11:15	226'	45 "	"	1.3 "
11:30	226'	45 "	"	1.3 "
11:45	226'	45 "	"	1.3 "
12:00	226'	45 "	"	1.3 "
12:15	226'	45 "	"	1.3 "
12:30	226'	45 "	"	1.3 "
12:45	226'	45 "	"	1.3 "
1:00	227'	45 "	"	1.3 "
1:15	227'	45 "	"	1.3 "
1:30	227'	45 "	"	1.3 "
1:45	227'	45 "	"	1.3 "
2:00	227'	45 "	"	1.3 "
2:15	227'	45 "	"	1.3 "
2:30	227'	45 "	"	1.3 "
2:45	227'	45 "	"	1.3 "
3:00	227'	45 "	"	1.3 "
3:15	227'	45 "	"	1.3 "
3:30	227'	45 "	"	1.3 "

HD-2265  
345

227' 45" 1.3

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. Feezer Co. Inc Telephone #: 410-781-4655  
Address: 6301 Parkway Ave,  
Sykesville, MD

(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. Feezer 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: N.V. Homes Telephone #: 410-379-5956  
Subdivision: CLARKSVILLE OVERLOOK Lot #: 37 Well Tag #: HO 95-0301  
Site Address: 12819 MACBETH FARM LANE  
CLARKSVILLE, MD 21029

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit  
Make: Sta-Rite Make: Campbell Two piece watertight cap:   
Model #: SSPYNS15221 Model#: PT 800 Screened, vented well cap:   
Pump Capacity 5 GPM Depth: 42" (36" min) Cap secured to casing:   
Well Yield: 1.3 GPM NSF approved:  Conduit min 18" B.G.:   
Depth of well encountered at time of pump installation: 600 (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  
Type: Poly  
PSI: 200 (160 psi min)  
Depth of supply line: 42 (36" min)

House Connection  
PVC sleeved to undisturbed soil at wall penetration:   
Approximate length of sleeve: 10'  
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.

Robert L. Feezer 12/6/07  
Signature of company representative responsible for installation date

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

Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: 1/3/08 (KW)  
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

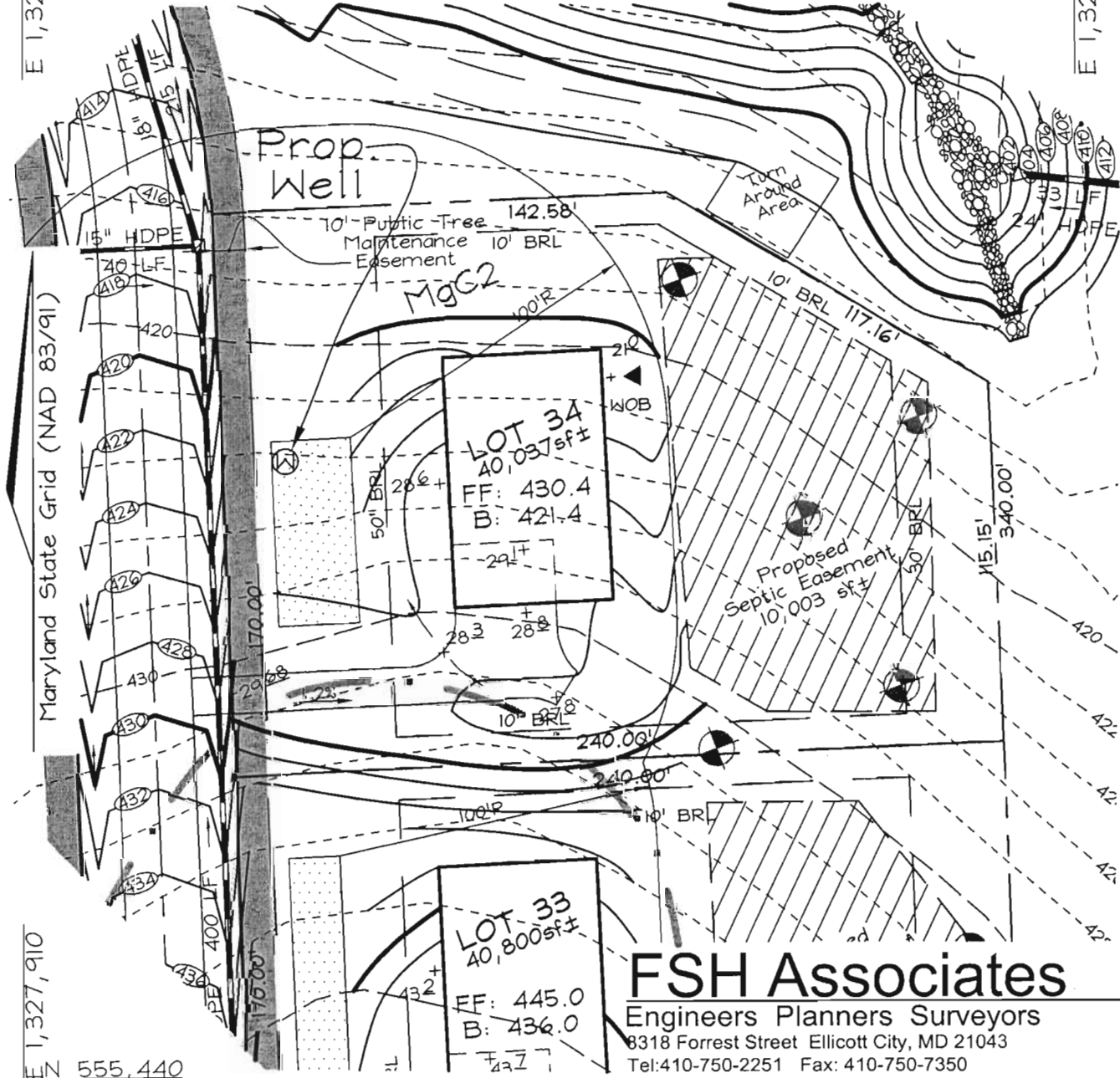
E 1,327,910Z 555,810

N 555,810

E 1,328,240

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

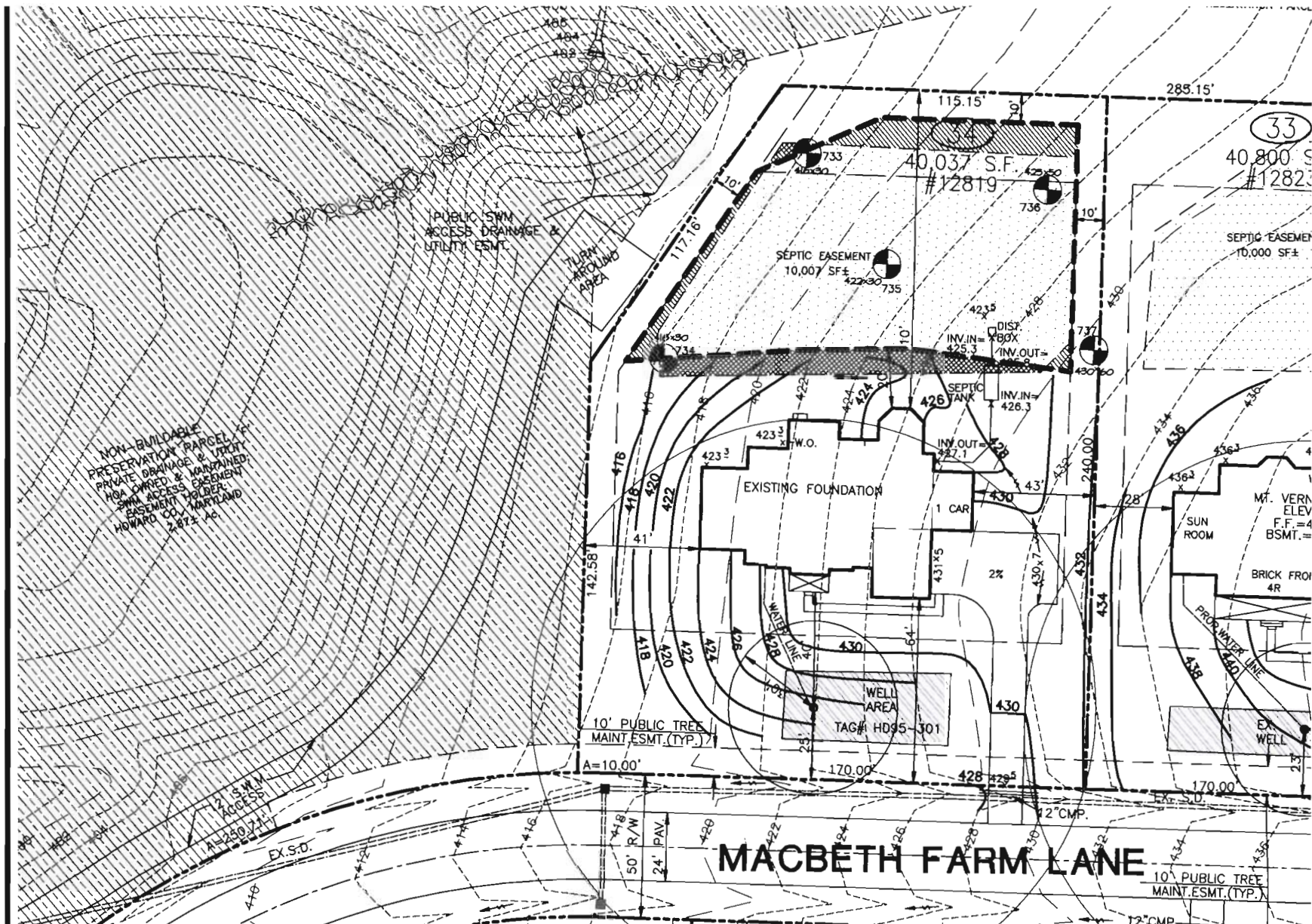
DESIGN BY: PS  
 DRAWN BY: CD  
 CHECKED BY: ZYF  
 SCALE: 1"=50'  
 DATE: Feb. 9, 2006  
 W.O. No.: 3165  
 SHEET No.: 34 OF 35

## WELL PERMIT PLAN MACBETH FARM

LOT 34

TAX MAP 34 GRID 18 & 24  
4TH ELECTION DISTRICT

PARCEL 90  
HOWARD COUNTY, MARYLAND



NON-BUILDABLE  
 PRESERVATION PARCEL FOR  
 PRIVATE DRAINAGE & UTILITY  
 HOA OWNED & MAINTAINED  
 SWM ACCESS EASEMENT  
 EASEMENT HOLDER  
 HOWARD CO., MARYLAND  
 2-872 AG

33

40,800 S.F.  
#12823

SEPTIC EASEMENT  
10,000 SF±

MACBETH FARM LANE

10' PUBLIC TREE  
MAINT. ESMT. (TYP.)

MT. VERN  
ELEV  
F.F.=4  
BSMT.=

BRICK FRO  
4R

PROD. WATER LINE

EX. WELL

SEPTIC TANK

EXISTING FOUNDATION

1 CAR

WELL AREA

TAG# HD95-301

PUBLIC SWM  
ACCESS DRAINAGE &  
UTILITY ESMT.

TURF  
AROUND  
AREA

10' PUBLIC TREE  
MAINT. ESMT. (TYP.)

2' SWM  
ACCESS

EX.S.D.

12" CMP.

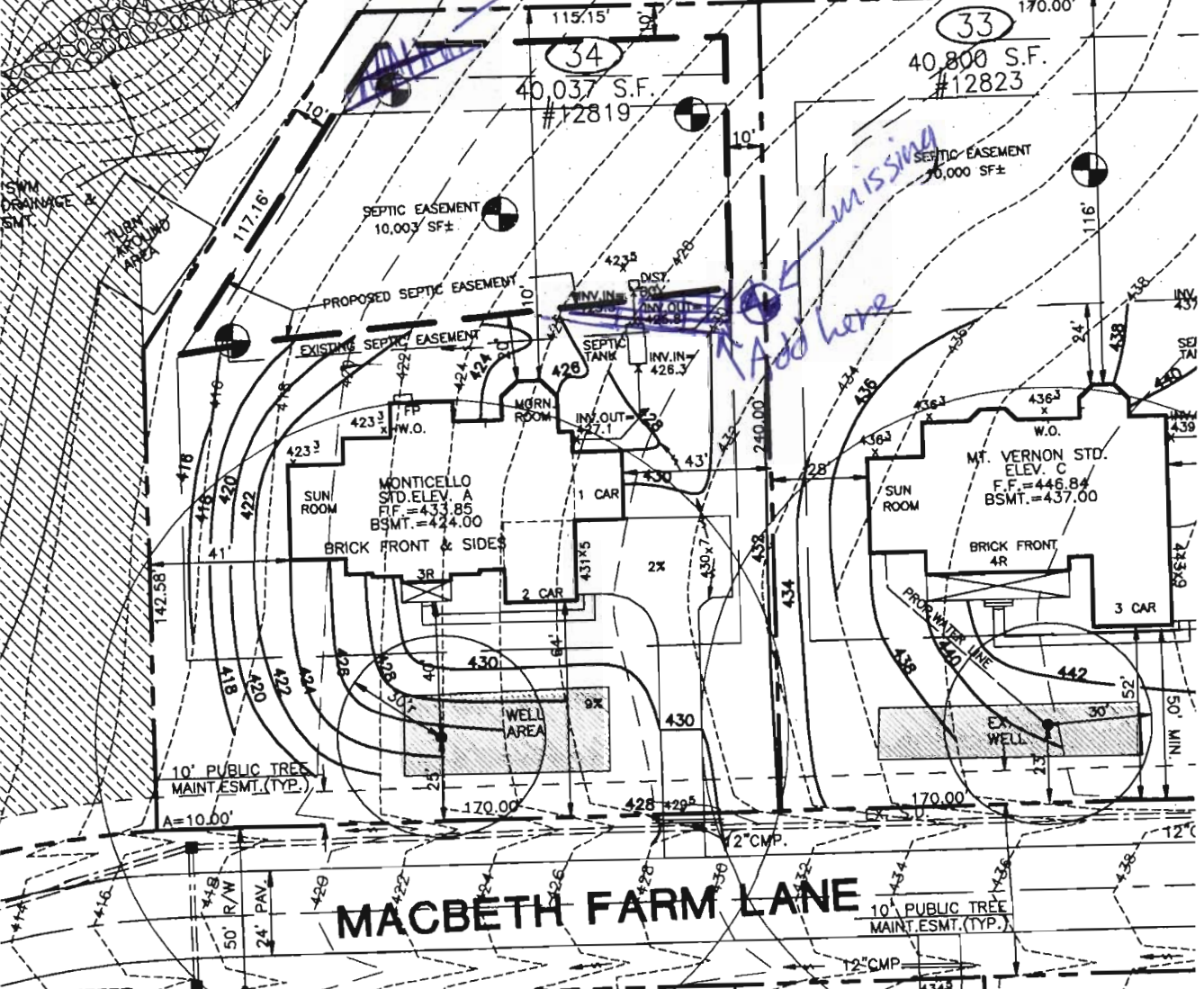
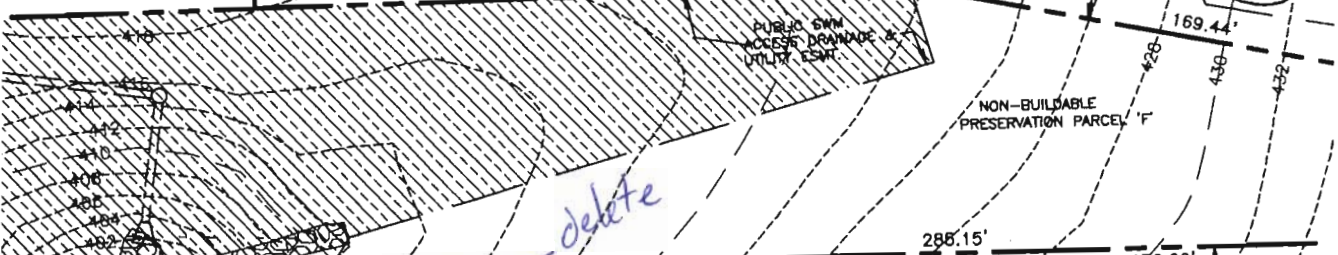
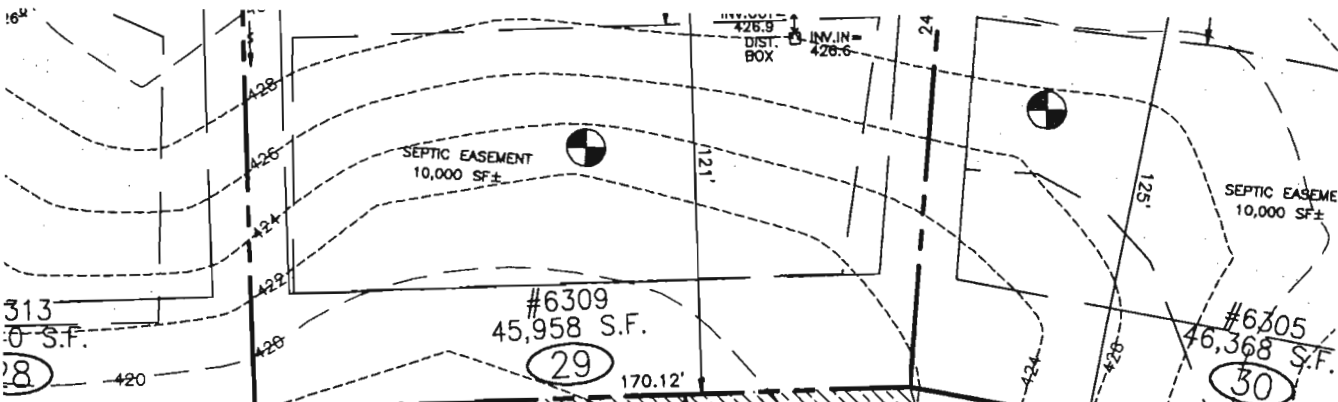
12" CMP.

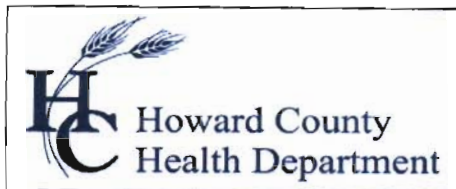
12" CMP.

12" CMP.

12" CMP.

12" CMP.





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*

1/3/2008

Homeowner  
12819 Macbeth Farm Lane  
Clarksville, MD 21029

RE: Clarksville Overlook - Lot 34  
12819 Macbeth Farm Lane  
BP # B07003184  
Well Permit # HO-95-0301

Dear Sir/Madam:

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 12/12/2007. Final approval of the well line connection to the dwelling was approved on 1/2/2008.**

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.

#### **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-95-0301. 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: **Radium** – 5/29/2007  
**Standard** – 12/10/2007, 12/18/2007, & 12/28/2007

Date of Well Completion: 4/26/2006

Approving Authority,

Kevin Wolf, Sanitarian  
Well & Septic Program

cc: Building Inspector's Office  
Community Health Services  
File

### CERTIFICATE OF ANALYSIS



**Requester:**  
 NV Homes, Inc  
 Attn: Buddy  
 6085 Marshalee Drive Suite 130  
 Elkridge, Maryland 21075

**S/O Number:** 66430  
**Report Date:** December 11, 2007

**Trace Laboratories, Inc.**  
 Maryland

5 North Park Drive  
 Hunt Valley, MD 21030  
 Telephone: 410/252-7742  
 Telephone: 410/584-9099  
 Fax: 410/584-9117  
 Email: tracelab@comnext.net  
 www.tracelabs.com

**Property Sampled:** 12819 Macbeth Farm Road

**County:** Howard  
**Subdivision:** Clarksville Overlook **Tax Map #:** 34  
**Lot #:** 34 **Parcel #:** 90  
**Building Permit #:** B07003184

**Date/Time Collected:** December 10, 2007 at 9:30 am  
**Date/Time Received:** December 10, 2007 at 3:45 pm

Maryland State Certified  
 Water Quality Laboratory  
 No. 318

**Sample Location:** Pressure Tank Tap  
**Sampler ID:** 6308KW  
**Samples Iced:** Yes  
**Residual Cl<sub>2</sub> <0.1 mg/L:** Yes

**Well Tag Number:** HO-95-0301  
**Well Condition:** 2-Piece Cap  
 Satisfactory

**Water Conditioning/Treatment:** Neutralizer

ISO 9001:2000



Cert No. C2005-01504

PARAMETER	RESULT	METHOD	MCL/*SMCL	
Nitrate	5.5 mg/L as N	SM 4500D	10 mg/L as N	Pass
Turbidity	3.5 NTU	EPA 180.1	10 NTU	Pass
pH	6.7 Units	EPA 150.1	*6.5-8.5 Units	***
Sand	Negative		Negative	
Total Coliform	PRESENT	SM 9223B	Absent	FAIL
E.coli	Absent	SM 9223B	Absent	

*Allison R. Milburn*  
 Allison R. Milburn  
 Manager- Drinking Water Testing

MCL=Maximum Contamination Level

\*SMCL=Secondary Maximum Contamination Level

\*\*\*A non-enforceable parameter that may cause cosmetic effects or aesthetic effects (such as taste, color or odor) in drinking water.

## CERTIFICATE OF ANALYSIS



**Trace Laboratories, Inc.**  
Maryland

5 North Park Drive  
Hunt Valley, MD 21030  
Telephone: 410/252-7742  
Telephone: 410/584-9099  
Fax: 410/584-9117  
Email: tracelab@connext.net  
www.tracelabs.com

Maryland State Certified  
Water Quality Laboratory  
No. 318

ISO 9001:2000



Registered Firm



FERRY JOHNSON  
REGISTRARS, INC.

Cert No. C2005-01504

**Requester:**  
NV Homes, Inc  
Attn: Buddy  
6085 Marshalee Drive Suite 130  
Elkridge, Maryland 21075

**S/O Number:** 66537  
**Report Date:** December 19, 2007

**Property Sampled:** 12819 Macbeth Farm Road, Retest #1

**County:** Howard  
**Subdivision:** Clarksville Overlook **Tax Map #:** 34  
**Lot #:** 34 **Parcel #:** 90  
**Building Permit #:** B07003184

**Date/Time Collected:** December 18, 2007 at 12:48 pm  
**Date/Time Received:** December 18, 2007 at 3:30 pm

**Sample Location:** Laundry Tub Tap  
**Sampler ID:** 6308KW  
**Samples Iced:** Yes  
**Residual Cl<sub>2</sub> <0.1 mg/L:** Yes

**Well Tag Number:** HO-95-0301  
**Well Condition:** 2-Piece Cap  
Satisfactory

**Water Conditioning/Treatment:** Neutralizer

PARAMETER	RESULT	METHOD	MCL	
Total Coliform	PRESENT	SM 9223B	Absent	FAIL
E.coli	Absent	SM 9223B	Absent	

*Kate Cannon FOR*  
Allison R. Milburn  
Manager- Drinking Water Testing

MCL=Maximum Contamination Level

### CERTIFICATE OF ANALYSIS



**Requester:**  
NV Homes, Inc  
Attn: Buddy  
6085 Marshalee Drive Suite 130  
Elkridge, Maryland 21075

**S/O Number:** 66629  
**Report Date:** January 2, 2008

**Trace Laboratories, Inc.**  
Maryland

5 North Park Drive  
Hunt Valley, MD 21030  
Telephone: 410/252-7742  
Telephone: 410/584-9099  
Fax: 410/584-9117  
Email: [tracelab@connexl.net](mailto:tracelab@connexl.net)  
[www.tracelabs.com](http://www.tracelabs.com)

Maryland State Certified  
Water Quality Laboratory  
No. 318

ISO 9001:2000



Cert No. C2005-01504

**Property Sampled:** 12819 Macbeth Farm Road, Retest #2

**County:** Howard  
**Subdivision:** Clarksville Overlook **Tax Map #:** 34  
**Lot #:** 34 **Parcel #:** 90  
**Building Permit #:** B07003184

**Date/Time Collected:** December 28, 2007 at 9:56 am  
**Date/Time Received:** December 28, 2007 at 1:00 pm

**Sample Location:** Pressure Tank Tap  
**Sampler ID:** 6308KW  
**Samples Iced:** Yes  
**Residual Cl<sub>2</sub> <0.1 mg/L:** Yes

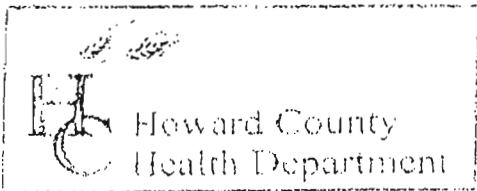
**Well Tag Number:** HO-95-0301  
**Well Condition:** 2-Piece Cap  
Satisfactory

**Water Conditioning/Treatment:** Neutralizer

PARAMETER	RESULT	METHOD	MCL	
Total Coliform	Absent	SM 9223B	Absent	Pass
E.coli	Absent	SM 9223B	Absent	Pass

*Allison R. Milburn*  
Allison R. Milburn  
Manager- Drinking Water Testing

MCL=Maximum Contamination Level



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

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

- The well site has been staked by F.S.H. ASSOCIATES,  
 (professional land surveyor or company employing professional land surveyors)  
 on 2-20-06 (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 6/10/03

JTS CORPORATION

LOTS 1-35 MACBETH FARM

Send Report To:

Bert Nixon

State of Maryland  
DHMH - Laboratories Administration  
Division of Environmental Chemistry  
**RADIATION LABORATORY**

201 W. Preston Street, Baltimore, Maryland 21201  
John M. DeBoy, Dr. P.H., Director

**LABORATORY ANALYSIS REQUEST**

Sample Bottle No. A: 40-95-0301 No. B: \_\_\_\_\_ Field Blank Bottle No. A: \_\_\_\_\_ No. B: \_\_\_\_\_

Plant/Site Name: M. h. AP Farms Lot 24 County: Howard

Sample Source: M. h. AP Farms LA Location: 40-95-0300  
(well no., lab sink, sample tap, etc.)

County:   Plant No.

CHECK (one per box)

Drinking Water   
Landfill   
Stream   
Other

Community   
Non-community   
Private   
Other

Source (raw water)   
Distribution (treated)   
MCL

Emergency   
Routine   
Recheck   
Special

Collector: K. Wolf

Telephone No: 410-313-2645

Date Collected: 5/29/2007

Time Collected: 10 a.m. \_\_\_\_\_ p.m.

Nitric Acid Preserved: Yes  No

Iced: Yes  No

Submitters Code:   Federal Project:

Field Data: ~6.8 pH \_\_\_\_\_ Chlorine \_\_\_\_\_

Remarks: Sample preserved (HNO<sub>3</sub>) to pH < 2.0

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000			
✓	Gross Beta	4100			
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank A	4004			
	Field Blank B	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

Date Received: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Supervisor: \_\_\_\_\_



Send Report To:

Bert Niassa

State of Maryland

DHMH - Laboratories Administration  
Division of Environmental Chemistry  
**RADIATION LABORATORY**

Howard County Health Department  
Bureau of Environmental Health  
7178 Columbia Gateway Drive  
Columbia, Maryland 21046

201 W. Preston Street, Baltimore, Maryland 21201  
John M. DeBoy, Dr. P.H., Director

**LABORATORY ANALYSIS REQUEST**

Sample Bottle No. A: 40-95-0301 No. B: \_\_\_\_\_ Field Blank Bottle No. A: \_\_\_\_\_ No. B: \_\_\_\_\_

Plant/Site Name: Mabuth Farms Lot 34 County: Howard

Sample Source: Mabuth Farms Ln Location: 40-95-0300  
(well no., lab sink, sample tap, etc.)

County:   Plant No.

CHECK (one per box)

Drinking Water   
Landfill   
Stream   
Other

Community   
Non-community   
Private   
Other

Source (raw water)   
Distribution (treated)   
MCL

Emergency   
Routine   
Recheck   
Special

Collector: K. Wolf

Telephone No: 410-313-2645

Date Collected: 5/22/2007

Time Collected: 10 a.m. \_\_\_\_\_ p.m.

Nitric Acid Preserved: Yes  No

Iced: Yes  No

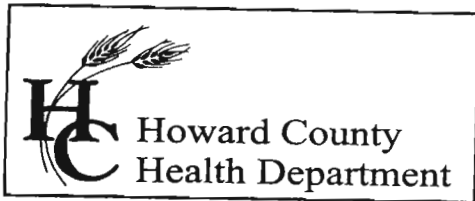
Submitters Code:   Federal Project:  Field Data: ~6.8 \_\_\_\_\_  
pH Chlorine

Remarks: Sample preserved (HNO<sub>3</sub>) to pH < 2.0

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	2402	11±2	06/01/07
✓	Gross Beta	4100	2402	6±2	"
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank A	4004			
	Field Blank B	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

Date Received: 05 / 30 / 07

Supervisor: S. Wise



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](http://www.hchealth.org)

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

June 28, 2007

JTS Corporation  
8808 Centre Park Drive  
Suite 209  
Columbia, MD 21045

RE: MacBeth Farms, Lot #34  
Well Tag: HO-95-0300

To Whom It May Concern:

A sample was collected from a yield test on May 29, 2007 and submitted to Department of Health and Mental Hygiene 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  $11.0 \pm 2.0$  picocuries/liter ( $\mu\text{Ci/L}$ ); while the **Gross Beta** level was  $6.0 \pm 2.0$   $\mu\text{Ci/L}$ . The **Gross Alpha** result was below its **maximum contaminant level (MCL)** of  $15 \mu\text{Ci/L}$ , while the **Gross Beta** level was below its target value of  $50 \mu\text{Ci/L}$  (roughly equivalent to the **annual dose rate of 4 millirems/year**).

At the time of testing and with respect to these parameters, the future well water supply appears safe for all uses. No additional testing **for these parameters** will be required to secure the future Use & Occupancy. However, other standard (potability) testing will still be necessary.

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