

C1 - 3760

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 Received

DATE WELL COMPLETED 4/3/06

Depth of Well 600

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-0326

OWNER: J T S CORPORATION, STREET OR RFD: Clarksville Pike (Md 108), TOWN: Clarksville, SUBDIVISION: Macheth Farm, SECTION: , LOT: 20

WELL LOG Not required for driven wells

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows include Top soil, Brown mica, Grey mica, Sandstone, Green mica, Quartz, etc.

GROUTING RECORD WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (Cement, Bentonite Clay), NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL

CASING RECORD casing types insert appropriate code below, MAIN CASING TYPE (ST), Nominal diameter top (main) casing, Total depth of main casing

OTHER CASING (if used) diameter, depth (feet)

SCREEN RECORD screen type or open hole (insert appropriate code below), DEPTH (nearest ft.)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y)

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"

DRILLERS LIC. NO.: MND 040, DRILLERS SIGNATURE: George F. Gustenberry

LIC. NO.: AW D 288

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

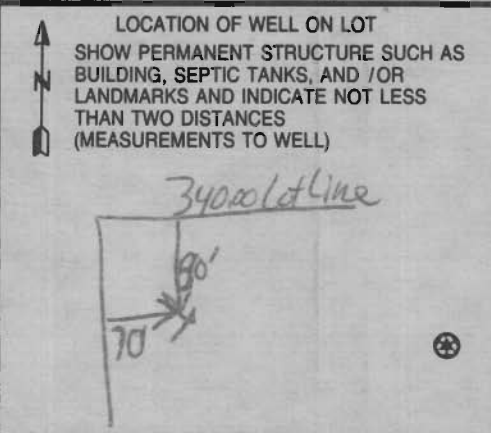
DEPTH (nearest ft.) 600, SLOT SIZE 1, 2, 3, DIAMETER OF SCREEN (NEAREST INCH) 56 to 60

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, TELESCOPE CASING, LOG INDICATOR, OTHER DATA

PUMPING TEST HOURS PUMPED (nearest hour) 6, PUMPING RATE (gal. per min.) 3, METHOD USED TO MEASURE PUMPING RATE Buchert, WATER LEVEL (distance from land surface) BEFORE PUMPING 29 ft, WHEN PUMPING 186 ft, TYPE OF PUMP USED (for test) submersible

PUMP INSTALLED DRILLER INSTALLED PUMP (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) 31 to 35, PUMP HORSE POWER 37 to 41, PUMP COLUMN LENGTH (nearest ft.) 43 to 47, CASING HEIGHT (circle appropriate box and enter casing height) + above, LAND SURFACE, - below (nearest foot) 2



B 1 0753

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

MD-95-0326

fill in this form completely

Date Received (APA)

02 24 06

OWNER INFORMATION 10175

J T S Corporation
8808 Centre Park Drive S209
Columbia, Md 21045

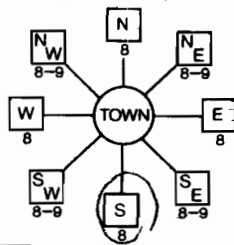
LOCATION OF WELL

Howard
Macbeth Farm
Clarksville
MILES FROM TOWN (enter 0 if in town) 1

DRILLER INFORMATION

George F. Easterday
L. Franklin Easterday, Inc.
9265 Brown Church Rd., MT. Airy, Md. 21771
2/23/2006

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Clarksville Pike (Md 108)

NEAR WHAT ROAD
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
DISTANCE FROM ROAD Ft. 500+
TAX MAP: 34 BLK: 18 PARCEL 94

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

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
STATE SIGNATURE
DATE ISSUED 3/23/06
CO SIGNATURE
NORTH GRID 495 000 EAST GRID 816 000

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered)
AIR-ROTARY
CABLE
JETTED
AIR-PERCussion
REverse-ROTary
Jetted & DRIVEN
ROTARY (Hydraulic Rotary)
DRive-POINT

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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- wells

WRITE THE BOX NUMBER FROM THE MAP HERE

810 6

490

4/4/06
Radium Sample Taken During Yield Test.
BB

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

14 E 10

N

Preswick Dr.



Clarksville Pike

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

APPROX. PERMIT NUMBER

MD 2004 G
PERMIT No. MD-95-0326

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Lot + 20

FIELD DATA SHEET  
 HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 95-0326  
 Location of property (road) ROUTE 108, CHARLESVILLE PIKE  
 Subdivision MACBETH FARM Lot 20 Block \_\_\_\_\_ Plat \_\_\_\_\_ Sec. \_\_\_\_\_  
 Well Driller EASTERDAY Owner JTS Corp

Depth of well 600 13/4 gpm  
 Distance of measuring point (M.P.) above ground 1'  
 Static water level (S.W.L.) below M.P. 28.7

I. High rate pumping -- reservoir drawdown  
 Time pump started 930 Pumping rate 15 gpm  
 Total time 30 min to reach pumping water level 185 ft. below M.P. pump set 385

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)
1000	185'	20 sec	1 gal bucket	3 gpm
1015	185'	20 "	"	3 "
1030	185'	20 "	"	3 "
1045	185'	20 "	"	3 "
1100	185'	20 "	"	3 "
1115	185'	20 "	"	3 "
1130	185'	20 "	"	3 "
1145	186'	20 "	"	3 "
1200	186'	20 "	"	3 "
1215	186'	20 "	"	3 "
1230	186'	20 "	"	3 "
1245	186'	20 "	"	3 "
100	186'	20 "	"	3 "
115	186'	20 "	"	3 "
130	186'	20 "	"	3 "
145	186'	20 "	"	3 "
200	186'	20 "	"	3 "
215	186'	20 "	"	3 "
230	186'	20 "	"	3 "
245	186			3
300	186			3
315	186			3
330	186			3
345	186			3
ID-224 400	186		polled pump off at 385	3

ALLEGANY 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. Feezer Co. Inc Telephone #: 410-781-4655  
Address: 6321 Barnett 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: NV Homes Telephone #: 410-379-5956  
Subdivision: CLARKSVILLE OVERLOOK Lot #: 20 Well Tag #: HO-95-0326  
Site Address: 6314 KERNE COURT  
CLARKSVILLE, MD 21029

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit  
Make: STA-RITE Make: Campbell Two piece watertight cap:   
Model #: SPVHS15221 Model#: PT 800 Screened, vented well cap:   
Pump Capacity 5 GPM Depth: 48" (36" min) Cap secured to casing:   
Well Yield: 3 GPM NSF approved:  Conduit min 18" E.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 House Connection  
Type: Poly PVC sleeved to undisturbed soil at wall penetration:   
PSI: 200 (160 psi min) Approximate length of sleeve: 10'  
Depth of supply line: 48" (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.

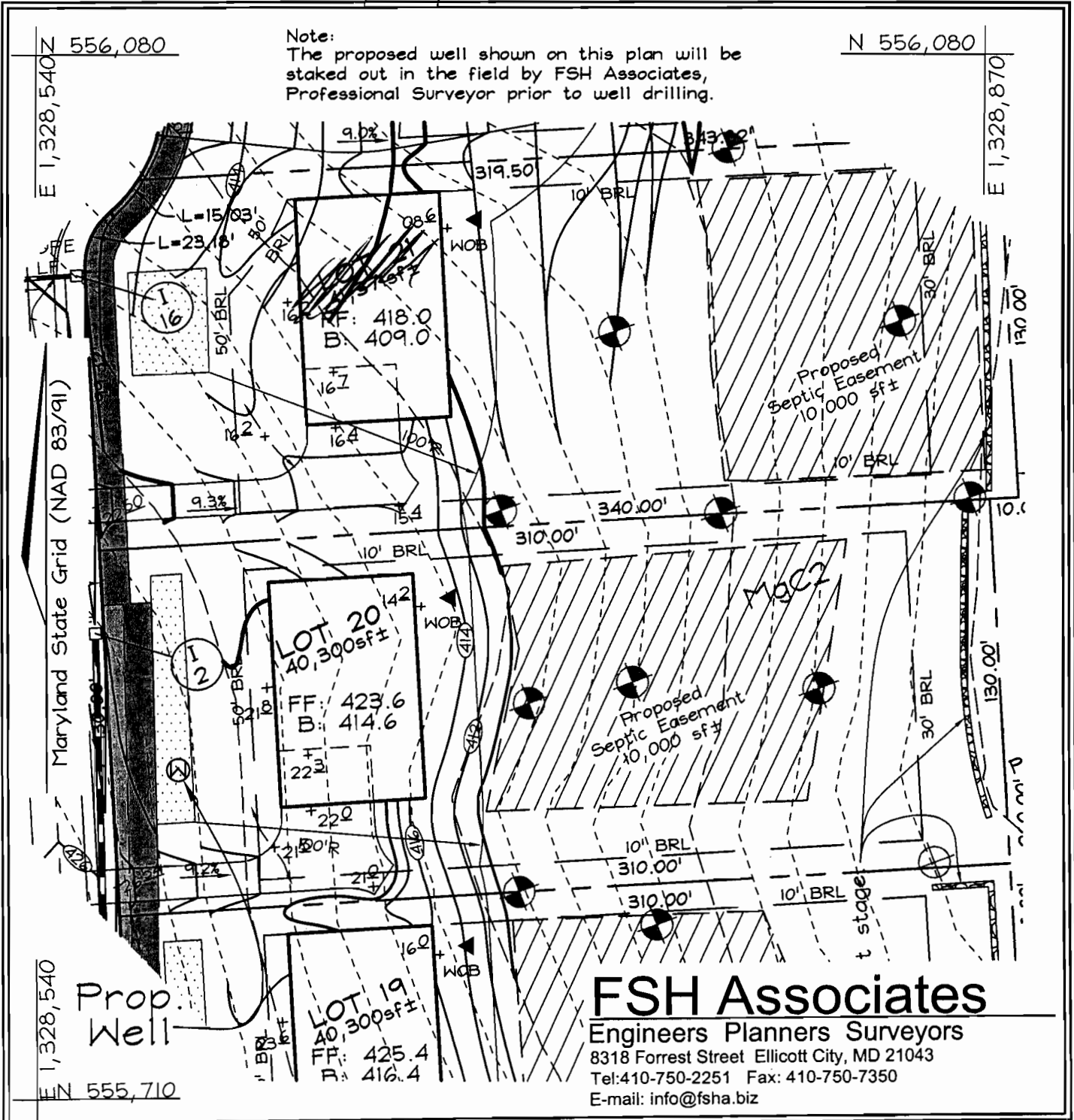
Robert L. Feezer 6/18/08  
Signature of company representative responsible for installation <sup>date</sup> INSPECTION CALLED IN FOR 5/28/08

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

Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: 5/28/08 (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

3/23/06 well site OK (signature)

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

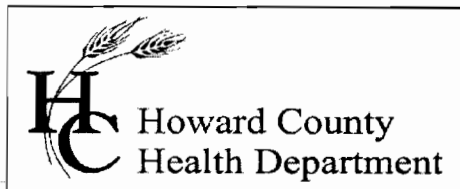
DESIGN BY: PS  
DRAWN BY: CD  
CHECKED BY: ZYF  
SCALE: 1"=50'  
DATE: Feb. 9, 2006  
W.O. No.: 3165  
SHEET No.: 20 OF 35

## WELL PERMIT PLAN MACBETH FARM

LOT 20

TAX MAP 34 GRID 18 & 24  
4TH ELECTION DISTRICT

PARCEL 90  
HOWARD COUNTY, MARYLAND



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**

June 25, 2008

NV Homes, Inc.  
6085 Marshalee Drive, Suite 130  
Elkridge, MD 21075

RE: Clarksville Overlook, Lot 20  
6314 Kerne Court  
Clarksville, MD 21029  
BP #: B08000242  
Well Permit # HO-95-0326

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 05/27/2008. Final approval of the well line connection to the dwelling was approved on 05/28/2008.**

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.

Also, Gross Alpha and Beta samples were collected on 04/04/06. The Gross Alpha result was below its maximum contaminant level (MCL) of 15 pCi/L, while the Gross Beta level was below its targeted value of 50 pCi/L. At the time of the 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 and Occupancy.

#### **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-95-0326. 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.**

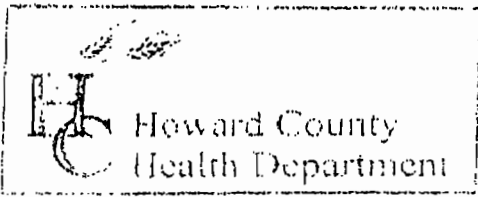
Dates of Water Sample: 06/20/2008 & 06/24/2008  
Date of Samples for Gross Alpha and Gross Beta: 04/04/2006  
Date of Well Completion: 04/03/2006

Approving Authority,



Brian Baker, R. S.  
Well & Septic Program

cc: Building Inspector's Office  
Community Health Services  
File



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





TRACE LABORATORIES, INC  
 A Methode Electronics, Inc. Company  
 5 North Park Drive  
 Hunt Valley, MD 21030 USA  
 Telephone: 410/584-9099 / Fax: 410/584-9117  
 Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory # 318

### CERTIFICATE OF ANALYSIS

**Requester:**

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

**S/O Number:** 68733  
**Report Date:** June 23, 2008

**Property Sampled:** 6314 Kerne Court, 21029

**County:** Howard  
**Subdivision:** Clarksville Overlook  
**Lot #:** 20  
**Building Permit #:** B08000242

**Tax Map #:** 34  
**Parcel #:** 90

**Date/Time Collected:** June 20, 2008 at 2:25 pm  
**Date/Time Received:** June 20, 2008 at 3:45 pm

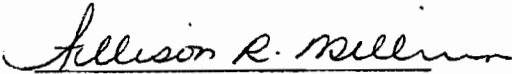
**Sample Location:** Pressure Tank Tap  
**Sampler ID:** 6308KW

**Samples Iced:** Yes  
**Residual Cl<sub>2</sub> <0.1 mg/L:** Yes

**Well Tag Number:** HO-95-0326  
**Well Condition:** 2-Piece Cap  
 Satisfactory

**Water Conditioning/Treatment:** Neutralizer

PARAMETER	RESULT	METHOD	MCL/*SMCL	
Nitrate	7.7 mg/L as N	SM 4500D	10 mg/L as N	Pass
Turbidity	27 NTU	EPA 180.1	10 NTU	HIGH
Iron	0.4 mg/L as Fe		*0.3 mg/L as Fe	***
pH	6.6 Units	EPA 150.1	*6.5-8.5 Units	***
Sand	Negative		Negative	
Total Coliform	Absent	SM 9223B	Absent	Pass
E.coli	Absent	SM 9223B	Absent	Pass

  
 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.



TRACE LABORATORIES, INC  
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 5 North Park Drive  
 Hunt Valley, MD 21030 USA  
 Telephone: 410/584-9099 / Fax: 410/584-9117  
 Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory # 318

### CERTIFICATE OF ANALYSIS

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

**S/O Number:** 68772  
**Report Date:** June 25, 2008

**Property Sampled:** 6314 Kerne Court, 21029, Retest #1

**County:** Howard  
**Subdivision:** Clarksville Overlook  
**Lot #:** 20  
**Building Permit #:** B08000242

**Tax Map #:** 34  
**Parcel #:** 90

**Date/Time Collected:** June 24, 2008 at 1:30 pm  
**Date/Time Received:** June 24, 2008 at 2:30 pm

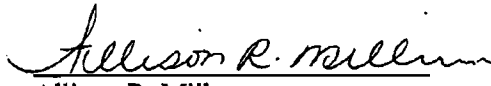
**Sample Location:** Kitchen Tap  
**Sampler ID:** 6308KW

**Samples Iced:** Yes  
**Residual Cl<sub>2</sub> <0.1 mg/L:** Yes

**Well Tag Number:** HO-95-0326  
**Well Condition:** 2-Piece Cap  
 Satisfactory

**Water Conditioning/Treatment:** Neutralizer

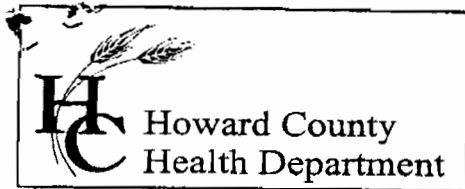
PARAMETER	RESULT	METHOD	MCL/*SMCL	
Turbidity	<1.0 NTU	EPA 180.1	10 NTU	Pass
Iron	<0.1 mg/L as Fe		*0.3 mg/L as Fe	***

  
 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.



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website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

May 18, 2006

Clarksville Overlook, LLC  
5300 Dorsey hall Drive  
Suite 200  
Ellicott City, Maryland 21042

RE: MacBeth Farm Lot 20  
Well Tag: HO-95-0326

To Whom It May Concern:

A sample was collected from a yield test on April 4, 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  $12.0 \pm 1.6$  picocuries/liter (pCi/L); while the Gross Beta level was  $24.5 \pm 1.3$  pCi/L. Both the Gross Alpha and Gross Beta were below the maximum contaminant levels (MCL's) of 15 pCi/L and 50 pCi/L respectively. 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 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 or to schedule additional testing.

Sincerely,

Bert Nixon, Deputy Director  
Bureau of Environmental Health

CC: Eric Dougherty, MDE Water Mgmt., Groundwater  
Well & Septic File

Send Report To:

Howard County  
Environmental  
Health

State of Maryland  
DHMH - Laboratories Administration

Division of Environmental Chemistry  
**RADIATION LABORATORY**

201 W. Preston Street, Baltimore, Maryland 21201  
J. Mehsen Joseph, Ph.D., Director

MacBeth Farm  
JTS Corporation Suite 209  
8808 Centre Park Dr. Columbia, MD 21045

**LABORATORY ANALYSIS REQUEST**

HOMF20BB950326

Sample Bottle No. A: 1 No. B: \_\_\_\_\_ Field Blank Bottle No. 1: \_\_\_\_\_ No. 2: \_\_\_\_\_

Site Name: Macbeth Farm - Lot 20 County: Howard

Sample Source: Rt. 108 Location: Well # 40-95-0326  
(well no., lab sink, sample tap, etc.)

County:  1  3 Plant No.

Collector: Brian Baker Telephone No.: (410) 313-2643

Date Collected: 4/4/2006 Time Collected: 10:30 a.m. \_\_\_\_\_ p.m.

Nitric Acid Preserved: Yes  No  Iced: Yes  No

Submitters Code:   Federal Project:  S Field Data: \_\_\_\_\_ pH \_\_\_\_\_ Chlorine \_\_\_\_\_

Remarks: Taken During Well Yield Test

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	<u>604014-005</u>	<u>12.0 ± 1.6</u>	<u>4/7/06</u>
✓	Gross Beta	4100		<u>24.5 ± 1.3</u>	
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank #1	4004			
	Field Blank #2	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

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

Section Chief: \_\_\_\_\_

Analytical Summary Report

Client Name:	Howard County Health Department	Client Sample ID:	HOMF20BB950326
Sample Date/Time:	4/4/2006	Lab Sample ID:	604014-005-005-1/1
Receipt Date/Time:	4/4/2006	Sample Matrix:	WATER
Prepared Date/Time:		Analytical Method:	ALPHA/BETA BY METHOD 900.0

Isotope	Result	Uncertainty $1\sigma$	MDA	Q
Gross Alpha	11.9573 pCi/L	$\pm 1.6213$ pCi/L	2.1541 pCi/L	
Gross Beta	24.5587 pCi/L	$\pm 1.2639$ pCi/L	2.4841 pCi/L	