

B 1 0934

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

40-95-0409 fill in this form completely

W523734 please type

Date Received (APA)

11/30/05

OWNER INFORMATION

Land MKTS Consultants Inc 3060 Washington RD Glenwood MD 21738

B 3 LOCATION OF WELL

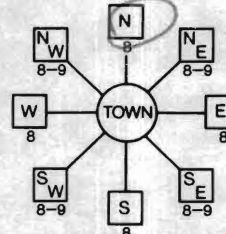
Howard COUNTY Walnut GROVE SUBDIVISION SECTION 44 LOT 4 Clarksville NEAREST TOWN

MILES FROM TOWN (enter 0 if in town) 2

DRILLER INFORMATION

Ralph E Mayne M SD 117 Driller's Name License No. Ralph E. Mayne INC Firm Name 17024 Hardy Rd MT Airy MD 21771 Address Signature Date 11-20-05

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



PackKess Circle LA NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

300 DISTANCE FROM ROAD ENTER FT OR MI TAX MAP: 28 BLK: 18 PARCEL 74

B 2 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 (circled) 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 13 A517422 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 9/14/2007 CO SIGNATURE EXP. DATE 9/14/2007 NORTH GRID 508 EAST GRID 816

APPROXIMATE DEPTH OF WELL 150 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST 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 DEEPENED 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 DEEPEN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE)

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

APPROP. PERMIT NUMBER H02005G006

PERMIT No. H0-95-0409

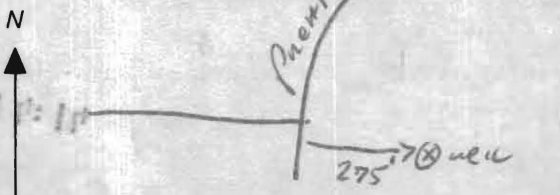
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

WRITE THE BOX NUMBER FROM THE MAP HERE

E 816 N 508

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



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: Robert L Feezer Co. Inc Telephone #: 410-781-4655
Address: 6321 Barnett Ave, Sykesville, 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. Feezer License# 2122
*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: MV HOMES Telephone #: 410-379-5956
Subdivision: Walnut Grove Lot #: 4 Well Tag #: HO-95-0409
Site Address: 12343 Preakness Circle Ln, Clarksville, MD 21029

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: STA-RTS Make: Campbell Two piece watertight cap: [check]
Model #: SYORVNS0122-01 Model #: PT 800 Screened, vented well cap: [check]
Pump Capacity: 10 GPM Depth: 42" (36" min) Cap secured to casing: [check]
Well Yield: 15 GPM NSF/WSC approved: [check] Conduit min 18" B.G.: [check]
Depth of well encountered at time of pump installation: 160 (feet) Conduit secured to well cap: [check]
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

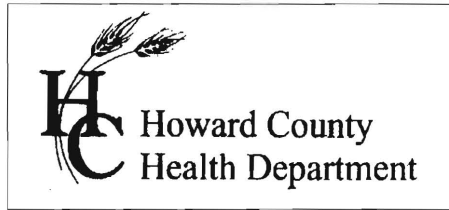
Piping to house House Connection
Type: Poly PVC sleeve to undisturbed soil at wall penetration: [check]
PSI: 200 (160 psi min) Length of sleeve (5' minimum from foundation): 10'
Depth of supply line: 42" (36" min) Sleeve sealed properly: [check]

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. Feezer date: 12/27/10
INSPECTION CALLED IN FOR 12/13/10

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

Date Insp. Requested: Date Insp. Approved: Inspector:
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



7178 Columbia Gateway Dr. • 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

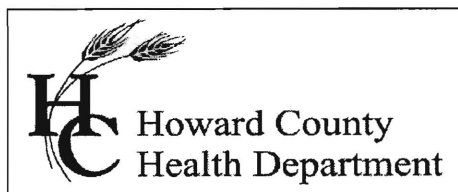
ATTENTION WELL DRILLERS!!!

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

- The well site has been staked by Gutschick, Little & Weber
on 11/10/2005
- _____ 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



Bureau of Environmental Health
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website: www.hchealth.org

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

February 11, 2011

Homeowner
12343 Preakness Circle Lane
Clarksville, MD 21029

RE: Walnut Grove, Lot 4
12343 Preakness Circle Lane
Clarksville, MD 21029
BP #B10002867
Well Permit #HO-95-0409

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 2/10/2011. Final approval of the well line connection to the dwelling was approved on 12/13/2010.**

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.

Gross Alpha and Beta samples were also collected on 01/11/2007. Both findings were below the maximum limit suggested by the EPA. At the time of the testing and with respect to these parameters, the future well water supply appears safe for all uses. No addition testing for **these parameters** will be required to secure the future Use and Occupancy.

The raw nitrate sample results were previously documented to be 11.9 mg/L. **A nitrate removal device (Reverse Osmosis) has been installed to treat the excessive nitrate contamination. The nitrate treatment device appears to be operating properly as evidenced by the water sample results taken on 2/10/2011 which indicates a nitrate level of <1.0 mg/L.**

Permanent Deviation for Nitrates

COMAR 26.04.04.09 prohibits approval of any water supply with a nitrate-nitrogen contaminant level in excess of 10 parts per million. **This department will grant a permanent deviation to that section of the regulation on condition that the nitrate removal system effectively maintains the nitrate-nitrogen contaminant level of 10 ppm or less.**

Furthermore, it will be necessary for you to comply with the following conditions:

1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the **residence.**
2. It is recommended that a laboratory certified for water testing perform a yearly nitrate analysis. (Certified to test for nitrates)
3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of the above condition.

INTERIM CERTIFICATE OF POTABILITY
(Permanent Deviation for Nitrates)

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-95-0407 **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.

Further more under COMAR 26.04.04.09 E. *Disclosure*, any and all special conditions to this interim certificate of potability shall be disclosed to any purchaser of the property served by the well HO-95-1568 before entering into a contract of sale or lease. A person who fails to make this disclosure is subject to the penalties set out in Regulation .12F *Enforcement* and Environment Article 9-1311, Annotated Code of Maryland.

This certificate may become final upon completion of the second bacteriological and nitrate tests, which may be taken by the health department within six months of the date 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 Sample(s): 1/7/2011, & 2/10/2011
Date of Well Completion: 1/11/2007

Respectfully,



Jeff Williams, R.S./R.E.H.S, M.A.S.
Program Supervisor
Well and Septic Program

cc: Building Inspector's office
 Community Health Services
 File



TRACE LABORATORIES, INC
 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.
 6085 Marshalee Drive Suite 130
 Elkridge, Maryland 21075

S/O Number: 80343

Report Date: February 11, 2011

Property Sampled: 12343 Preakness Circle Lane, 21029 **Building Permit #:** B10002867
Sample Location: Reverse Osmosis (R/O) Tap **Sampler ID #:** 9813AM
Residual Chlorine: <0.1 mg/L **Samples Iced:** Yes

County: Howard **Subdivision:** Walnut Grove
Map: 28 **Parcel:** 74 **Lot #:** 4

Date/Time Collected in Field: February 10, 2011 @ 2:45 pm
Date/Time Received in Lab: February 10, 2011 @ 4:15 pm

Well Tag #: HO-95-0409
Well Condition: 2-Piece Cap, Satisfactory Condition

Water Treatment/Conditioning: Neutralizer, Reverse Osmosis (R/O)

| PARAMETER | METHOD | MCL | RESULT | PASS/FAIL |
|-----------|----------|--------------|----------------|-----------|
| Nitrate | SM 4500D | 10 mg/L as N | <1.0 mg/L as N | Pass |

Katherine C. Higgs
 Katherine C. Higgs
 Administrative Assistant

MCL: Maximum Contamination Level, an enforceable level established by the EPA



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Maryland State Certified Laboratory #318

CERTIFICATE OF ANALYSIS

Requester:

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

S/O Number: 80035 *Amended*

Report Date: January 10, 2011

Property Sampled: 12343 Preakness Circle Lane, 21029
Sample Location: Pressure Tank
Residual Chlorine: <0.1 mg/L

Building Permit #: B10002867
Sampler ID #: 9813AM
Samples Iced: Yes

County: Howard
Map: 28

Subdivision: Walnut Grove
Parcel: 74

Lot #: 4

Date/Time Collected in Field: January 7, 2011 @ 12:15 pm

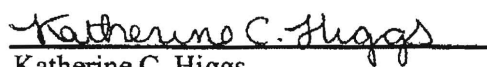
Date/Time Received in Lab: January 7, 2011 @ 2:45 pm

Well Tag #: HO-95-0409

Well Condition: 2-Piece Cap, Satisfactory Condition

Water Treatment/Conditioning: Neutralizer

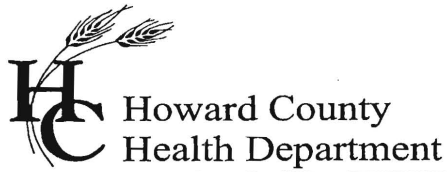
| PARAMETER | METHOD | MCL/*SMCL | RESULT | PASS/FAIL |
|----------------|-----------|----------------|----------------|-----------|
| Total Coliform | SM 9223B | Absent | Absent | Pass |
| <i>E. coli</i> | SM 9223B | Absent | Absent | Pass |
| Nitrate | SM 4500D | 10 mg/L as N | 11.9 mg/L as N | FAIL |
| Turbidity | EPA 180.1 | 10 NTU | <1.0 NTU | Pass |
| pH | EPA 150.1 | *6.5-8.5 Units | 7.0 Units | *** |
| Sand | | Negative | Negative | |


 Katherine C. Higgs
 Administrative Assistant

MCL: Maximum Contamination Level, an enforceable level established by the EPA

*SMCL: Secondary Maximum Contamination Level, a level recommended by the EPA

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

February 5, 2007

Walnut Grove, LLC
10705 Charter Dr.
Suite 320
Columbia, Maryland 21044

RE: Walnut Grove, Lot #4
Well Tag: HO-95-0409

To Whom It May Concern:

A sample was collected from a yield test on January 11, 2007 and submitted to the 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 1.0 ± 1.0 picocuries/liter (pCi/L); while the **Gross Beta** level was $<3.0 \pm 0$ pCi/L. The **Gross Alpha** result was below its maximum contaminant level (MCL) of 15 pCi/L, while the **Gross Beta** level was below its target value of 50 pCi/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

Send Report To:

Bost N. Ben

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: 12W4 WAO409 No. B: _____ Field Blank Bottle No. A: _____ No. B: _____

Plant/Site Name: Walnut Grove lot 4 County: Howard

Sample Source: Produce Co. Co. Location: HO-95-04109
(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: 410-313-2045

Date Collected: 1/11/07 Time Collected: 10 a.m. _____ p.m.

Nitric Acid Preserved: Yes No Iced: Yes No

Submitters Code: Federal Project: Field Data: _____

Remarks: Sample taken @ yield test pH _____ Chlorine _____

| ✓ | Test | EPA Code | Laboratory No. | Results (pCi/L) | Date Reported |
|---|-----------------------|----------|----------------|-----------------|---------------|
| ✓ | Gross Alpha | 4000 | 1273 | 1±1 | 01/16/07 |
| ✓ | Gross Beta | 4100 | 1273 | <3 | h |
| | 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: 01/12/07 Supervisor: J. DeBoy