C 1 0168 SEQUENCE N	SIAIE OF MARTLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.	
1 2 -3 6 (THIS NUMBER IS TO BE PUNCHED	FILL IN THIS FORM COMPLETELY	COUNTY A 5 17904	
IN COLS. 3-6 ON ALL CARDS) ST/CO USE ONLY DATE WELL C	PLEASE TYPE AND ETED Depth of Well	PERMIT NO.	
DATE Received MM DD YY DATE WELL C	MPLETED Depth of Well 22 140 26	FROM "PERMIT TO DRILL WELL"	
8 13 15	20 (TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37	
OWNER Selfridge	Builders		
STREET OR RFDlast name Koxb		Glenela	
SUBDIVISION CHARKS Mea		LOT 16	
WELL LOG	GROUTING RECORD Yes no	C 3	
Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2 PUMPING TEST	
STATE THE KIND OF FORMATIONS PENETRATED, TH COLOR, DEPTH, THICKNESS AND IF WATER BEARIN	TYPE OF GROOTING MATERIAL (CITCLE OILE)	HOURS PUMPED (nearest hour)	
DESCRIPTION (Use if	CEMENT C M BENTONITE CLAY B C	8 9	
Thom 10 be	NO. OF BAGS NO. OF POUNDS	PUMPING RATE (gal. per min.)	
Tan Soil 02	GALLONS OF WATER	METHOD USED TO MEASURE PUMPING RATE Bucket	
100	from 48 TOP 52 ft. to 54 BOTTOM 58 ft.		
Sandy 2 80 0	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	WATER LEVEL (distance from land surface)	
	casing CASING RECORD	BEFORE PUMPING 45 ft.	
SAU Stone 80 90	types ST CO	90	
	appropriate STEEL CONCRETE	WHEN PUMPING 22 25 ft.	
MICKA 90 100	below PLASTIC OTHER	TYPE OF PUMP USED (for test)	
GRAVEL Bed 100 110 L	MAIN Nominal diameter Total depth	A air P piston T turbine	
	CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary O other (describe	
MICKA 110 140	PL 6 106	centrifugal R rotary (describe	
	60 61 63 64 66 70	J jet S submersible	
	E OTHER CASING (if used) A diameter depth (feet)	27 27	
	H inch from to	PUMP INSTALLED	
	C FL 4" , 146, 100	DRILLER INSTALLED PUMP YES NO	
	NPL 4" 80 5	(CIRCLE) (YES or NO)	
	G	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.	
	screen type SCREEN RECORD	TYPE OF PUMP INSTALLED	
	or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,O) 29 IN BOX 29.	
	appropriate BRONZE HOLE	CAPACITY: GALLONS PER MINUTE	
	code below PL OT	(to nearest gallon) 31 35	
	PLASTIC OTHER	PUMP HORSE POWER 37 41	
NUMBER OF UNBUGGGGGGW WELLO	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH	
NUMBER OF UNSUCCESSFUL WELLS:	- 12pl 100 80	(nearest ft.) 43 47	
WELL HYDROFRACTURED Yes	E 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)	
CIRCLE APPROPRIATE LETTER	C 2	tand Surface	
A WELL WAS ABANDONED AND SEALED	23 24 26 30 32 36 S	helow a (nearest)	
E ELECTRIC LOG OBTAINED	C 3 R 38 39 41, 45 47 51	49 Delow) foot)	
P TEST WELL CONVERTED TO PRODUCTION WELL	E SLOT SIZE 1 /16 2 3	LOCATION OF WELL ON LOT	
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCT ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION	DIN DIAMETER 1/// (NEAREST	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR	
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE A CAPTIONED PERMIT, AND THAT THE INFORMATION PRESE	OVE OF SCREEN 7 INCH)	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES	
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF KNOWLEDGE.	from to	(MEASUREMENTS TO WELL)	
DRILLERS LIC. NO. 1, M SD	GRAVEL PACK	Phop Line	
Ph E. When	IF WELL DRILLED WAS FLOWING WELL WEST EN IN GOVERN	^ /	
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	INSERT F IN BOX 68 68 MDE USE ONLY	25'	
LIC. NO.1 D	(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q		
Jane	(E.n.o.s.) w u	25' LINE	
SITE SUPERVISOR (sign. of driller or journeyman	70 72 74 75 76	neil 1	
responsible for sitework if different from permittee)	TELESCOPE LOG 74 75 76 CASING INDICATOR OTHER DATA	AA	
DENV-CR00	COUNTY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

B 1 0910 SEQUENCE NO. (MDE USE ONLY)		MARYLAND	STATE PERMIT NUMBER
1 2 3 6	APPLICATION FOR PL	ERMIT TO DRILL WELL	
	523626 pleas	se type	70 fill in this form completely 79
Date Received (APA)	NFORMATION	B 3 HOUN	LOCATION OF WELL
8 MM DD YY 13	·	8 COUNTY	no 00 do 10 11
15 Last Name Owner	First Name 34	23 SUBDIVISION	Meadow
14045 GARED Street or F	DRIVE 55	SECTION 44 46	LOT 48 50
GIENWOOD M 57 Town 70 Star	D 21738 te 72 Zip 76	GENELO 52 NEAREST TOWN	71
DRILLER INFORMATION	MCD IIT.	MILES FROM TOWN (ente	er 0 if in town) M 1
Driller's Name	M D 76 License No. 81	B 4	Rox Bury MEADOW DR,
Firm Name Firm Name	A) We also	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	11 NEAR WHAT ROAD 30
Address Address	Airy, MD, 21771	N 8 NE 8-9	ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
Signature 2. Maysure	71-7-05 Date	W (TOWN) E	34 30 37 WEST SEAST
B 2 WELL INFORMATION 1 2 APPROX. PUMPING RATE (GAL. PER MIN.)	8 12	Sw SE	DISTANCE FROM ROAD ENTER FT OR MI 38 39
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)	500 14 20	S _W S _E 8-9	TAX MAP: 21 BLK: 17 PARCEL 22
USE FOR WATER (CIRC		NOT TO HEALTH	D BE FILLED IN BY DRILLER H DEPARTMENT APPROVAL
DOMESTIC POTABLE SUPPLY & RE	SIDENTIAL	HOWARD	(13) A517904
F FARMING (LIVESTOCK WATERING 8	AGRICULTURAL	COUNTY NAME STATE	COUNTY NO.
22 I INDUSTRIAL, COMMERICIAL, DEWA	TERING	SIGNATURE	INSERT S 41
P PUBLIC WATER SUPPLY WELL		DATE ISSUED	Salue A. Crighton 1/4/07
T TEST, OBSERVATION, MONITORING		43 MM DD YY 48 NORTH	CO SIGNATURE / EXP. DATE
G GEO-THERMAL		GRID 50	0 0 GRID 796 0 0 0 57 63
APPROXIMATE DEPTH OF WELL	150 FEET	SHOW MAJOR FEATURES BOX & LOCATE WELL - WITH AN X	
APPROXIMATE DIAMETER OF WELL	6 11 NEAREST INCH	SOURCES OF DRILLING V	NATER
METHOD OF DRILL	_ING (circle one)	2. 3.	
BORED (or Augered) JETTED	Jetted & DRIVEN	0.	
AIR-PERcussion	ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMBER	(X)
other	DRive-POINT	FROM THE MAP HERE	
REPLACEMENT OR DE		E \$300	796 000
(CIRCLE APPROPE	AND CONTRACTOR OF THE CONTRACT	N MANAT	500
Y THIS WELL WILL REPLACE A WELL T		DRAW A SKETCH BELOW	SHOWING LOCATION OF WELL IN
ABANDONED AND SEALED	HAT WILL BE USED	DISTANCE FROM WELL T	OWNS AND ROADS AND GIVE O NEAREST ROAD JUNCTION
AS A STANDBY-CONTACT LOCAL APP FOR POLICY ON STANDBY WELLS		measure DR.	1 2
THIS WELL WILL DEEPEN AN EXISTIN	NG WELL	me mice but	Hox 3
PERMIT NUMBER OF WELL TO BE REPLAC (IF AVAILABLE) 41	ED OR DEEPENED 52	N	Tank My
Not to be filled in by driller (MDE (OR COUNTY USE ONLY)	A	30' Menan
APPROP. PERMIT NUMBER H 0 2	2003GO16(01)	8	Rel My
PERMIT No. 70	0 - 95 - 0197 57	原 19 38 11 39〇	21
SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEE			●

Review 3/13/06

FIELD DATA SHEET HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 95-0199 Location of property (road) Rox Buny Ma Subdivision Clanks Mendow	endow DN.	
Subdivision L'LANKS Mendow		Sec.
Well Driller Kalph Mayne	Owner SelfningE Blog	
Depth of well 140 , As Distance of measuring point (M.P.) about Static water level (S.W.L.) below M.P.		
I. High rate pumping reservoir drawdown		
Time pump started 8:00 Total time 15 min to reach pumping	Pumping rate 10 6/m water level 90 ft. below	M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute in- tervals	WATER . below .		PUMPING time to gallon l	fill 🛨	FLOW METER READING (if used)	CALCU (gall minu	LATED FLOW ons per te)
81.00	45	4	6	Sec		10	6 Pm
					Test Stanted		
8115	90	F	6	See		10	6mg
8:30	90	M	6	sec		10	GM
8145	50	H	6	Sec		10	GPM
5,00	50	"	6	1,		10	
9:15	90	11	6	1,		10	y
9130	90	U	6	1,		10	ч
9145	90	h	6	Sec		10	Am
10:00	90	he	6	Sa.		10	apri
10:15	50	4	6	Sec		10	BPM
101 30	90	11	6	4		10	1/
10:45	50	Ц	6	11		10	И
11:15	90	p	6	Sac		10	6PK
11:15	90	K	6	Sec		10	6PM
		39		_			(4)
					·	-	

DH 2229.54

HOWARD COUNTY HEALTH DEPARTMEN BUREAU OF ENVIRONMENTAL HEALTH WATER AND SEWERAGE PROGRAM TEL: (410)313-2640 FAX: (410)313-2648

SEP 4 2010

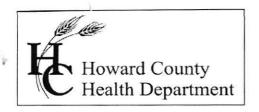
Information Form for the Installation of the Well Pump, Pitless Adapter, and Saturly Piping
NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired
inspection. No work is to be covered until approved by the Health Department. All installations must comply
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: Burgencister-Bell Inc Telephone #: 410-363-0880
Address: 10331 South Dol Held Road
nulinger mills m D 21117
(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer License # and name of individual responsible for the field installation:
Name (Print): Roland H. Mana Jn Licenset 6592
*A licensed individual must perform the actual installation. Apprentices must be under the direct
supervision of a licensed fourneyman or master plumber, pump installer or well driller. Licenses may be
subjected to field verification.
Name of Property Owner: Douglas Homes Inc. Telephone #: 410 - 740 -0522
Subdivision: Clark's Maad Nw Lot #: 16 Well Tag #: HO - 95 - co / 97
Site Address: 14306 Rox buny Meadows Doine
February This 21738
Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Complet Two piece watertight cap:
Model #: 5 (7805422)
Pump Capacity 5 GPM Depth: (36" min) Cap secured to casing: Well Yield: 10 GPM NSF approved: Conduit min 18" B.G.:
Depth of well encountered at time of pump installation: 140 (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 aci thin)
Depth of supply line: (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 hox, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for
approval prior to installation.
Roland H. Mann J. 9/17/10 (AM)
Signature of company representative responsible for installation date
Roland H. Mann Jr.
For Health Department Use Only - Not to be completed by Installer
Date Year Democratic
Date Insp. Requested: Inspection Data: Pitless adapter and water supply line at least 36" below grade Date Insp. Approved: 5 00 1000
Two piece cap installed and attached to casing securely
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
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 grow observed below pitless adapter
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 HD-215 (Rev. 8/00)
213(180. 0) 00 11 11 11 11 11 11 11 11 11 11 11 11
Donaius I Importante ACA IV 11,00 M & I' / +CVI' - N & Y

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: Address:			'elephone #	!:	
License # and na Name (Print):*A licensed indi supervision of a subjected to fiel		sible for the field ins ne actual installation r master plumber,	stallation: on. Appre pump ins	taller or well driller.	r the direct
Name of Property	y Owner:		Telephon	ne #:	
Subdivision:	366 Roxbury Me		_ Lot #: _ -	Well Tag # : HO	0-95-0197
Submersible Pu	mp Data	Pitless Adapter		Well Cap and Elect	ric Conduit
Make:		Make:		Two piece watertigh Screened, vented we Cap secured to casin	t cap:
		Model#:		Screened, vented we	ll cap:
Pump Capacity _	GPM GPM	Depth: (36	" min)	Cap secured to casin	g:
Well Yield:	GPM countered at time of pur	NSF approved:	-,	Conduit min 18" B.C	
Depth of well en	countered at time of pur	ip installation:	_(teet)	Conduit secured to w	
	exceeds well yield, a lov			red by NSPC 1990 Se	ection 17.8.4
	or Cable guards are requ				
Safety rope, if u	sed, attached to inside	or well casing with	eye boit _		
Piping to house		House Connect	ion		
Type:				d soil at wall penetrat	rion:
PSI: (160 p	oci min)	Approximate ler			HOH
	ine:(36" min)	Sleeve caulked	and sealed	properly:	
Departor suppry	(30 nmi)	Siceve caureu	and scarcu	property	
	y line is required to be , drainfields, and seway o installation.				
Signature of com	pany representative resp			date	
	For Health Depar	tment Use Only - l	Not to be o	ompleted by Installe	<u>er</u>
Date Insp. Reque Inspection Data:	Pitless adapter and water Two piece cap installed Elec. conduit extends at Safety rope installed installed installed installed installed water supply line sleev Adequate grout observer	er supply line at least and attached to case t least 18" below ground side of well casing and properly and casi ed adequately at ho	sing secure ade/attache ng 8" abov use connec	w grade ly d to cap properly e finished grade	2060 (FB)



Bureau of Environmental Health 7178 Gateway Drive Columbia, MD 21046

(410) 313-2640 TDD (410) 313-2323

Fax (410) 313-2648 Toll Free 1-866-313-6300

website: www.hchealth.org

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

May 13, 2011

Homeowner 14306 Roxbury Meadow Drive Glenwood, MD 21738

RE:

Clarks Meadow, Lot 16

14306 Roxbury Meadow Drive

Glenwood, MD 21738 BP #B10002077

Well Permit #HO-95-0197

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 12/22/2010. Final approval of the well line connection to the dwelling was approved on 12/22/2010.

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.

The raw nitrate sample results were previously documented to be 18 ppm. 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 05/09/2011 which indicates a nitrate level of <1.0 ppm.

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 <u>yearly</u> nitrate analysis. (Certified to test for nitrates)
- 3. If you decide to sell or rent your home in the future, you <u>must</u> 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-95-1572 **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-95-1571 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):

05/04/2011 & 05/09/2011

Date of Well Completion:

01/20/2006

Respectfully,

Jeff Williams, RS, REHS, MAS

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/a tracelabs.com

Maryland State Certified Laboratory #318

CERTIFICATE OF ANALYSIS

Requester:

S/O Number: 81215

Douglas Homes

Report Date: May 5, 2011

5034 Dorsey Hall Drive, Suite 102 Ellicott City, Maryland 21042

Property Sampled:

14306 Roxbury Meadow Drive, 21738

Building Permit #:

B10002077

Sample Location:

Pressure Tank

Sampler ID #:

9813AM

Residual Chlorine:

<0.1 mg/L

Samples Iced:

Yes

County:

Howard

Subdivision:

Clarks Meadow

Map:

21

Parcel:

271

Lot #:

16

Date/Time Collected in Field: Date/Time Received in Lab:

May 4, 2011 @ 1:40 pm May 4, 2011 @ 3:45 pm

HO-95-0197

Well Condition:

Well Tag #:

2-Piece Cap, Satisfactory

Water Treatment/Conditioning:

None

PARAMETER	METHOD	MCL/*SMCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent	Pass
E. coli	SM 9223B	Absent	Absent	Pass
Nitrate	SM 4500D	10 mg/L as N	18.0 mg/L as N	FAIL
Turbidity	EPA 180.1	10 NTU	4.8 NTU	Pass
pН	EPA 150.1	*6.5-8.5 Units	6.3 Units	***
Sand		Negative	Negative	

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.



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:

S/O Number: 81267

Douglas Homes

Report Date: May 10, 2011

Nitrate Retest

5034 Dorsey Hall Drive, Suite 102 Ellicott City, Maryland 21042

Property Sampled:

14306 Roxbury Meadow Drive, 21738

Building Permit #:

B10002077

Sample Location:

Reverse Osmosis (R/O) Tap

Sampler ID #:

9813AM

Residual Chlorine:

<0.1 mg/L

Samples Iced:

Yes

County:

Howard

Subdivision:

Clarks Meadow

Map:

21

Parcel:

271

Lot #:

16

Date/Time Collected in Field: Date/Time Received in Lab:

May 9, 2011 @ 1:05 pm May 9, 2011 @ 4:05 pm

Well Tag #:

HO-95-0197

Well Condition:

2-Piece Cap, Satisfactory

Water Treatment/Conditioning:

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

Katherino C. His Katherine C. Higgs

Administrative Assistant