C 1 6981 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)	FILL IN THIS FORM COMPLETELY PLEASE TYPE	NUMBER 4 516 902
ST/CO USE ONLY DATE Received MM DD YY 8 13 15	LETED Depth of Well H 607 22 440'r 26 H 20 TO NEAREST FOOT) 0K 0K	FROM "PERMIT NO. FROM "PERMIT TO DRILL WELL" Ho - 95 - 1038 28 29 30 31 32 33 34 35 36 37
OWNER Highland L	Iwelopment Corporation	
STREET OR RFD Bet name Hidden	heck way first name TOWN M	t, any 2,771
SUBDIVISION Windson Forest		
WELL LOG Not required for driven wells	GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box)	
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	Circle Appropriate Box) 44 44 TYPE OF GROUTING MATERIAL (Circle one)	PUMPING TEST
DESCRIPTION (Use FEET check if water bearing	CEMENT CIM BENTONITE CLAY BC NO. OF BAGS 46 30 NO. OF POUNDS 158 49 0	PUMPING RATE (gal. per min.)
Brown Shale O 96 Blue Rock 96 440	GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE Bucket
Blue Rock 96 440 ~	fromft. toft. 48 TOP 52 ft. toft. (enter 0 if from surface) CASING RECORD	WATER LEVEL (distance from land surface) BEFORE PUMPINGft.
	casing types insert appropriate	WHEN PUMPING $\frac{17 20}{22 25} \text{ ft.}$
30: 260 30 00-	below PLASTIC OT OTHER	TYPE OF PUMP USED (for test)
90'	MAIN Nominal diameter Total depth CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot)	27 27 27 other (describe below)
30%	60 61 63 64 66 70 E OTHER CASING (if used)	J jet S submersible
and matrices	A diameter depth (feet) H inch from to C	PUMP INSTALLED DRILLER INSTALLED PUMP YES NO
	S I G G	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
	screen type or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) 29 IN BOX 29.
	insert appropriate code below BRASS BRASS BRASS OPEN HOLE OT	CAPACITY : GALLONS PER MINUTE (to nearest gallon) 31 35
	PLASTIC OTHER	PUMP HORSE POWER
	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
WELL HYDROFRACTURED	E 8 9 11 15 17 21 C 2	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E FLECTRIC LOC OPTAINED	H 23 24 26 30 32 36 S C 3	49 LAND SURFACE 49 below 2 (nearest) 50 51 foot)
E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL	R 38 39 41 45 47 51 E E SLOT SIZE 1 2 3	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26 40.4 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.	DIAMETER (NEAREST OF SCREEN 56 60 INCH) from to	BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL) W W
DRILLERS LIC. NO. 1 M-S DO 24 Joseph Mayne	GRAVEL PACK	40 JE
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	WILL 25
SITE SUPERVISOR (sign. of driller or journeyman	70 72 TELESCOPE LOG 74 75 76	•
responsible for sitework if different from permittee)	CASING INDICATOR OTHER DATA	

EMERGENCY/TEMP NO. IF ANY SEQUENCE NO STATE PERMIT NUMBER STATE OF MARYLAND 9846 (MDE USE ONLY) APPLICATION FOR PERMIT TO DRILL WELL please type 526278 fill in this form completely Date Received (APA) В 3 LOCATION OF WELL 200 OWNER INFORMATION COUNTY none 15 Last Name Owner First Name 23 SUBDIVISION SECTION L LOT | Street or RFD 55 11 46 52 NEAREST TOWN State Town DRILLER INFORMATION MILES FROM TOWN (enter 0 if in town) 76 77 78 DO M В Driller's Name 4 License No 2 DIRECTION OF WELL FROM 30 TOWN (CIRCLE BOX) NEAR WHAT Firm Name ORTH N 5 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) N NW Address W 32 E FASI S Signature SOUTH Date W 40 TOW E 34 37 WELL INFORMATION 8 DISTANCE FROM ROAD B 2 5 APPROX, PUMPING RATE 2 ENTER FT OR MI 38 39 Sw (GAL. PER MIN.) 12 s_E S BLK: 16 PARCEL TAX MAP: _ AVERAGE DAILY QUANTITY NEEDED 20 (GAL. PER DAY) 14 NOT TO BE FILLED IN BY DRILLER USE FOR WATER (CIRCLE APPROPRIATE BOX) HEALTH DEPARTMENT APPROVAL DOMESTIC POTABLE SUPPLY & RESIDENTIAL D 516902 IRRIGATION COUNTY NAME COUNTY NO. FARMING (LIVESTOCK WATERING & AGRICULTURAL F IRRIGATION STATE INSERT S SIGNATURE 22 INDUSTRIAL, COMMERICIAL, DEWATERING 1 DATE ISSUED PUBLIC WATER SUPPLY WELL O B Ρ SIGNATURE EXP/DATE 48 43 MM Т TEST, OBSERVATION, MONITORING FAST NORTH 000 GRID 000 JZ G GRID GEO-THERMAL 50 SHOW MAJOR FEATURES OF BOX & LOCATE WELL '. 300 J FEET APPROXIMATE DEPTH OF WELL WITH AN X 28 24 SOURCES OF DRILLING WATER NEAREST APPROXIMATE DIAMETER OF WELL 1. Well INCH 2. METHOD OF DRILLING (circle one) 3 BORED (or Augered) JETTED Jetted & DRIVEN 30 AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary) WRITE THE BOX NUMBER 37 CABLE **REVerse-ROTary DRive-POINT** FROM THE MAP HERE other REPLACEMENT OR DEEPENED WELLS 000 (CIRCLE APPROPRIATE BOX) 40 N THIS WELL WILL NOT REPLACE AN EXISTING WELL N THIS WELL WILL REPLACE A WELL THAT WILL BE DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN Y RELATION TO NEARBY TOWNS AND ROADS AND GIVE ABANDONED AND SEALED DISTANCE FROM WELL TO NEAREST ROAD JUNCTION THIS WELL WILL REPLACE A WELL THAT WILL BE USED S 39 AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 Lidden Not to be filled in by driller (MDE OR COUNTY USE ONLY) X & Well APPROP. PERMIT NUMBER PERMIT No. 70 72 73 74 75 SPECIAL CONDITIONS ۲ HOULD USE SEPARATE SHEET IF NEEDED

DENV-Permit 97

Review FIELD DATA SHEET HOWARD COUNTY WELL YIELD TEST Well Permit No. HO - 95- 1038 Location of property (road) Hidden Cuck Way subdivision Windson Forest Knolls Lot 11 Plat Sec. Block Well Driller _ Joseph Mayne Owner Highland Development Corp Depth of well 440' Distance of measuring point (M.P.) above ground 2 Static water level (S.W.L.) below M.P. 37* High rate pumping -- reservoir drawdown Ι. Time pump started 6:15 Pumping rate _ loop____ Total time <u>30 min</u> to reach pumping water level <u>319</u> ft. below M.P. II. Recovery pump test data - observations to be recorded every 15 minutes TIME (in 15 WATER LEVEL PUMPING RATE FLOW METER READING CALCULATED FLOW time to fill 51 below M.P. (if used) minute in-(gallons per gallon bucket cervals minute) 162. 6:30 20 gpm 3 su 6:45 319 4 7:00 318 40 1.5 7: 15 318 40 1.5 7: 30 318 40 1.5 7:45 40 318 1.5 40 8:00 318 1.5 ... 8:15 40 1.5. 318 8: 30 318 40 1.5 8:45 318 40 125 9:00 40 318 1.5 9:15 318 40 1.5 9:30 40 318 1.5 9:45 40 318 10.5% 10:00 318 40 1.5 10:15 318 40 1.5 40 10:30 3.18 1.5 10:45 .3 318 1.5 40 11:00 40 318 1.5 318 11: 15 40 1.5 40 11:30 318 1.5. 11:45 318 40 1.5 318 12:00 40 1.5 318 12:15 40 1.5 12:30 318 40 1.5 12,45 318 40 1.5 1:00 318 40 1.5

Page of Date	• • •		Review _	
		FIELD DATA S HOWARD COUNTY WELL		
Location of pro	HO - 95 -/			
Well Driller	Mridsor Fores	C Knolls Lot Owne	Block Plat	Sec
Distance	well of measuring po vater level (S.W.	oint (M.P.) above gr .L.) below M.P	cound	
	pumping reser			
Time pump Total tin	e to	reach pumping water	Pumping rateft.]	below M.P.
II. Recovery p	oump test data -	observations to be	recorded every 15 minut	tes
minute in-	WATER LEVEL below M.P.		FLOW METER READING (if used)	CALCULATED FLOW (gallons per
tervals		gallon bucket		minute)

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.,	Telephone #: 410-781-4655	
Address:	6321 Barnett Avenue		
	Sykesville, MD 21784		
	-		

(Must circle one) Licensed Plumber Licensed Well Driller L License # and name of individual responsible for the field installation: Name (Print): Russell George

Licensed Well Pump Installer

 Name (Print):
 Russell George
 License# Pl0148

 *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: Keystone Homes	Telepho	ne #: 717-464-9060
Subdivision:	Lot #: <u>11</u>	Well Tag #: HO $-\frac{95}{-1038}$
Site Address: 18431 hidden creek Way		
Marriottsville, Maryland 21163		
	itless Adapter	Well Cap and Electric Conduit
Make: Goulds N	lake: Campbell	Two piece watertight cap: Yes
	Iodel#: PT800	Screened, vented well cap: Yes
Pump Capacity 5 GPM D	Depth: 42" (36" min)	Cap secured to casing: Yes
	SF/WSC approved: Yes	Conduit min 18" B.G.: Yes
Depth of well encountered at time of pump	installation:(feet)	Conduit secured to well cap: Yes
If pump capacity exceeds well yield, a low	water cut off switch is requi	red by NSPC 1990 Section 17.8.4
Torque arrestors, Cable guards, or other acc	ceptable method used- Must	circle one
Safety rope, if used, attached to brass rop	be adapter or other accept	able method inside of well casing N/A
Piping to house	House Connection	
Type: Poly		l soil at wall penetration: Yes
PSI: 200 (160 psi min)	Length of sleeve(5' minimum	n from foundation): 10'
Depth of supply line:42" (36" min)	Sleeve sealed properly: Ye	us
The water supply line is required to be at		
	reserve area. If this cann	ot be accomplished, contact this office for
approval prior to installation.		
Robert L. Feezer		
Signature of company representative respon	sible for installation	date
For Health Departm	nent Use Only - Not to be	completed by Installer
-1		
Date Insp. Requested: 7162 Dat	te Insp. Approved: 07 20	122 Inspector: RR Give
Inspection Data: Pitless adapter watertight		36" below grade (grade uhknown)
	nd attached to casing secure	
	east 18" below grade/attache	ed to cap properly X (no conduit i-stalled)
Safety rope not outside of		
	properly and casing 8" above	
	adequately at house connect	ction
Adequate grout observed	below pitless adapter	



Bureau of Environmental Health 8930 Stanford Blvd | Columbia, MD 21045 410.313.2640 - Voice/Relay 410.313.2648 - Fax 1.866.313.6300 - Toll Free

Maura J. Rossman, M.D., Health Officer

INTERIM CERTIFICATE OF POTABILITY

Expiration Date - Aprl 4, 2022

October 4, 2021

Homeowner 18431 Hidden Creek Way Mr. Airy, MD 21771

RE: Windsor Forest Knolls, Lot 11 18431 Hidden Creek Way Building Permit: B20004401 Well Permit: HO-95-1038

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on 9/13/2021. Final approval of the well line connection to the dwelling was granted on 7/20/2021. The well construction was completed on 5/21/2007. Water samples were collected on 9/9/2021, 9/23/2021, 9/29/2021.

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. 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-95-1038. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire six months from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the Annotated Code of Maryland, Environment Article, 9-1311, subject to a fine of up to \$500 or imprisonment not to exceed three months.

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website: http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf



Bureau of Environmental Health 8930 Stanford Blvd | Columbia, MD 21045 410.313.2640 - Voice/Relay 410.313.2648 - Fax 1.866.313.6300 - Toll Free

Maura J. Rossman, M.D., Health Officer

In closing, please refer to our "<u>Homeowner Fact Sheet</u>" which illustrates a better understanding for your Onsite Sewage Disposal System. You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your septic system.

Approving Authority,

- h. Vall

Kevin M. Wolf, LEHS, R.S./REHS, Supervisor Groundwater Management Section Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits Community Hygiene Program File

Enviro-Chem Laboratories, Inc.



47 Loveton Circle, Suite K . Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSIS

Michael Barlow Well Drillir 522 Underwood Lane Bel Air, MD 21014	ng		Report Report Use and PERMIT	Number: Occupa	2109291			
LAB#- E068185-01 SAMPLE LOCATION- Pressure Tank DATE SAMPLED- 09/09/2021 DATE RECEIVED- 09/10/2021 DELIVERED BY- Sean Bangledor COMMENTS-	ID- 18431 Hidden Cro TIME SAMPLH TIME RECEIV F RECEIVED BY	ED- 16:30 VED- 11:16		SAN	LL # MPLER- LORINE-	HO 95-1 1291SB Non det		
COMMENTS-								
ANALYSIS	METHOD	ANALYSI: DATE/TIM	-	BY	RES	ULT		DATA FLAG
Microbiology by Enviro-Che	≥m							
Total Coliform E. Coli	SM 9223B SM 9223B	09/10/21 09/10/21		VPS VPS		esent sent		FAIL PASS
Based on coliform bacterio. drinking water purposes.	logical standards,	at the tir	ne of sam	npling t	chis wat	er was l	NOT SAFE for	
Total Metals by EPA 200.7	by Enviro-Chem							
Iron	EPA 200.7	09/29/21	12:25	MAP	0.	838	mg/L	
Wet Chemistry by Enviro-Chem								
Nitrate (as N)	EPA 300.0	09/10/21	16:40	FRD	< 0.	15	mg/L	PASS
рН	SM4500-H+B	09/10/21	13:20	RAS	7.	2	SU	
Sand	EPA 160.5	09/10/21	13:30	VPS	< 0.		ml/L/Hr	
Turbidity	EPA 180.1	09/10/21	13:20	RAS	12	.0	NTU	

Jephen E. Stelle 6

Stephen Shelley Laboratory Director

Certifications

State of Maryland Laboratory

#192

Enviro-Chem Laboratories, Inc.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSIS

Michael Barlow Well Drilling 522 Underwood Lane Bel Air, MD 21014			Report Report Use and PERMIT	Numbe Occi	er: 210					
LAB#- E068352-01 SAMPLE I LOCATION- Pressure Tank DATE SAMPLED- 09/23/2021 DATE RECEIVED- 09/23/2021 DELIVERED BY- Steve Duklewski COMMENTS-	D- 18431 Hidden Cre TIME SAMPLEI TIME RECEIVI RECEIVED BY	D- 15:00 ED- 17:38	Shelley		WELL # SAMPLE CHLORI	R-	HO 95-1 M Isom Non det	#1311MI		
COMMENTS-										
ANALYSIS	METHOD	ANALYSIS DATE/TIM		BY		RESU	LT			DATA FLAG
Microbiology by Enviro-Chem										
Total Coliform S	5M 9223B	09/23/21	17:55	VPS	s <	1.0	6	MPN/100	mL	PASS
E. Coli S	SM 9223B	09/23/21	17:55	VPS	5 <	1.0	l.	MPN/100	mL	PASS

Based on coliform bacteriological standards, at the time of sampling this water was **SAFE** for drinking water purposes.

hen E. Shelle

Stephen Shelley Laboratory Director

<u>Certifications</u>

State of Maryland Laboratory

#192

Enviro-Chem Laboratories, Inc.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSIS

Michael Barlow Well Drilli 522 Underwood Lane Bel Air, MD 21014	ng	Report	Date: 10/01 Number: 21100 Occupancy #:			
LAB#- E068395-01 SAMPLU LOCATION- Powder Room DATE SAMPLED- 09/29/2021 DATE RECEIVED- 09/30/2021 DELIVERED BY- Steve Duklews COMMENTS-	TIME SAMPL TIME RECEI	ED- 13:00 VED- 08:00	WELL # SAMPLER- CHLORINE-			
COMMENTS-						
ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY RE	SULT		DATA FLAG
Wet Chemistry by Enviro-C Turbidity	hem EPA 180.1	09/30/21 14:30	FRD 4	1.7	NTU	

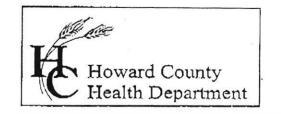
Jephen E. Sheller

Stephen Shelley Laboratory Director

Certifications

State of Maryland Laboratory

#192



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

TO ALL INTERESTED PARTIES

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

Well Site Location: Windson Forist Knolls Hidden Creek Wey Subdivision/Property Name Lot# Road Name 18 Lots

□ The well site has been staked by <u>FSH (associateo</u>, (professional land surveyor or company employing professional land surveyors) Willburg on <u>3-15-2007</u> (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 3/11/05

