C 1 46022	SEQUENC (MDE USE		STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
IN COLS. 3-6 ON ALL CARD. ST/CO USE ONLY DATE Received		COMPL	PLEASE TYPE	PERMIT NO. FROM "PERMIT TO DRILL WELL" HO - 15 - 03/6
OWNER ESTATE WELL SITE ADDRESS SUBDIVISION TON	15 OF last name Ten	PAT	RICIA L. SHEPPAPD RICIA L. SHEPPAPD FIRST NAME TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	28 29 30 31 32 33 34 35 36 Day 70 N LOT 6
WELL I			GROUTING RECORD YES NO WELL HAS BEEN GROUTED	C 3
STATE THE KIND OF FORMATI COLOR, DEPTH, THICKNESS		THEIR	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one)	PUMPING TEST
DESCRIPTION (Use additional sheets if needed)	FEET TO	check if water bearing	CEMENT CM BENTONITE CLAY CAS 46.	HOURS PUMPED (nearest hour)
Top Soil Brown Clay Brown Micq Sand Stone Gray Micq	0 2	3009	NO. OF BAGS 46 4 NO. OF POUNDS 35 46 GALLONS OF WATER 138 DEPTH OF GROUT SEAL (to nearest foot)	PUMPING RATE (gal. per min.) METHOD USED TO MEASURE PUMPING RATE Buchule
Brown Clay	2 8	_	from ft. to ft ft	WATER LEVEL (distance from land surface)
Brown Mica	8 50	-	casing types insert appropriate CASING RECORD STEEL CONCRETE	WHEN PUMPING TO THE PUMPING WHEN PUMPING ## 20 ft.
Sand Stone	50 80		appropriate code below PLASTIC OTHER	TYPE OF PUMP USED (for test)
Gray Mica	80 100		MAIN Nominal diameter Total depth CASING top (main) casing TYPE (nearest inch)! (nearest foot)	A air P piston T turbine other c centrifugal R rotary O (describelow)
	*		60 61 63 64 66 70 E OTHER CASING (if used) A diameter depth (feet)	J jet S submersible
well is to			H inch from to	PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO)
file 18'			screen type SCREEN RECORD or open hole	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)
			insert appropriate appropriate code BRONZE HOLE	IN BOX 29. CAPACITY: GALLONS PER MINUTE
			below PLASTIC OTHER	(to nearest gallon) 31 PUMP HORSE POWER 37
NUMBER OF UNSUCCESSFU	JL WELLS: Q		C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
WELL HYDROFRACTURED	Yes	N	E 8 9 11 15 17 21 C 2	CASING HEIGHT (circle appropriate box and enter casing height)
A WELL WAS ABANDONE WHEN THIS WELL WAS O E ELECTRIC LOG OBTAINE	ED AND SEALED COMPLETED D		H 23 24 26 30 32 36 S C 3 R 38 39 41 45 47 51	LAND SURFACE LAND SURFACE (neare foot)
P TEST WELL CONVERTED WELL I HEREBY CERTIFY THAT THIS WEL ACCORDANCE WITH COMAR 26.04.0 IN CONFORMANCE WITH ALL CONE CAPTIONED PERMIT, AND THAT THEREIN IS ACCURATE AND COM	L HAS BEEN CONSTRUCT 4 "WELL CONSTRUCT DITIONS STATED IN THE INFORMATION PR	RUCTED IN FION" AND HE ABOVE RESENTED	E SLOT SIZE 1 2 3 DIAMETER	LATITUDE 39 . 2 3 3 6 8 4 LONGITUDE 7 6 . 9 19 9 35 (DEFAULT COORD. WGS 84)
Devy 7	Sarlen	lay	GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 68	Pursuant to \$10-624 of the State Govt. Article of the Maryand Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You
MUST MATCH SHANATURE ON LIC. NO. 1 Buce Show	APPLICATION)	8	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is
SITE SUPERVISOR (sign. of responsible for sitework if different control of the co	driller or journeyn	nan	70	subject to inspection or copying, in whole or in part, by the pulic and other governmental agencies, if not protected by federal or state law.
MDE/WMA/PER.071			ORIGINAL	

DI ZOZAO SEQUENCE NO.	STATE OF MARYLAND	STATE PERMIT NUMBER
1 2 3 6 (MDE USE ONLY)	APPLICATION FOR PERMIT TO DRILL WE	11 11-15-0216
, ,	5507/ G. F. please type	70 fill in this form completely
Date Received (APA)	13252 B 3	LOCATION OF WELL
OWNER INFOR	PMATION	CC#
8 MM DD YY 13	Howar 8 COUNTY	21
17 27	SHEPPARD 3	
15 Last Name Owner	First Name 34 Lagrange 23 SUBDIVISION	aks Farm
5020 TEN OAKS ROAD		6
36 Street or RFD	55 SECTION 44 46	LOT 48 50
GLARKSVILLE, MD 21029 57 Town 70 State	72 Zip 76 Dayton	
DRILLER INFORMATION	72 ZIP 76 52 NEAREST TOWN	71
George F. Easterday	Wo 040	
	M D 76 License No. 81 B 4	
L. Franklin Easterday, Inc.	SOURCES OF DRILLING WATER	Ten Oaks Road
Firm Name		11 STREET ADDRESS 30
9265 Brown Church Rd., Mt.	Airy Md 21771 2 wells	NORTH
Address	3.	ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
	6/23/2016	Wale
Signature	Date	34 400 37 SOUTH
B 2 WELL INFORMATION	5	DISTANCE FROM ROAD
1 2 APPROX. PUMPING RATE — (GAL. PER MIN.)	8 12	ENTER FT OR MI 38 39
AVERAGE DAILY QUANTITY NEEDED	500	TAX MAP: 28 BLK: 14 PARCEL 140
(GAL. PER DAY) 14	20	
USE FOR WATER (CIRCLE AF	, LIEAL	TO BE FILLED IN BY DRILLER TH DEPARTMENT APPROVAL
D DOMESTIC POTABLE SUPPLY & RESIDE IRRIGATION	ENTIAL	IN DEPARTMENT APPROVAL
F FARMING (LIVESTOCK WATERING & AG	RICULTURAL HOWARD	(12)
IRRIGATION)	COUNTY NAME	COUNTY NO.
22 I INDUSTRIAL, COMMERCIAL, DEWATERI	ING STATE	INCERT C
P PUBLIC WATER SUPPLY WELL	SIGNATURE	INSERT S ———————————————————————————————————
T TEST, OBSERVATION, MONITORING	DATE ISSUED	the walk glister
O OPEN LOOP GEOTHERMAL	43 MM DD YY 48	CO SIGNATURE EXP. DATE
C CLOSED LOOP GEOTHERMAL		
	CHOW DEDMANIENT OF	OSED LOCATION OF WELL ON LOT RUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM,
APPROXIMATE DEPTH OF WELL 24		NDMARKS AND INDICATE NOT LESS THAN TWO
APPROVIMATE DIAMETER OF WELL	NEADEST	ANCE MEASUREMENTS TO WELL
APPROXIMATE DIAMETER OF WELL	INCH DAUTTON	
METHOD OF DRILLING	(circle one)	Ten BALS
BORED (or Augered) JETTED	Jetted & DRIVEN	len,
30 AIR-ROTary AIR-PERcussion	ROTARY (Hydraulic Rotary)	OA1
37 CABLE REVerse-ROTary	DRive-POINT N	5
other	5/	
REPLACEMENT OR DEEPL	ENED WELLS	- P
(CIRCLE APPROPRIATE		(x) \
THIS WELL WILL NOT REPLACE AN EXIST	ING WELL	
Y THIS WELL WILL REPLACE A WELL THAT	WILL BE	
ABANDONED AND SEALED	6.1.	
S THIS WELL WILL REPLACE A WELL THAT AS A STANDBY-CONTACT LOCAL APPROV		
FOR POLICY ON STANDBY WELLS		
D THIS WELL WILL DEEPEN AN EXISTING W	/ELL Sogium	. chioride,
PERMIT NUMBER OF WELL TO BE REPLACED O	N 1+ 11)(Co	moles
(II AVAILABLE) 41	,	
Not to be filled in by driller (MDE OR C	COUNTY USE ONLY)	ted 12/13/16 SC 09/
APPROP. PERMIT NUMBER	G	0/1
AFFROE PERMIT NOWIDER	~	ILANT +
PERMIT No. 140	-15-0316	M
70 71 7	72 73 74 75 76 77 78 79	
SPECIAL CONDITIONS NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED=	collect sodium, Chlorides,	1 23

3 SURVEY @ Y.eld.

Page	of
Date	12/13/16

Review	

FIELD DATA SHEET HYDROGEOLOGIC AREA (3) WELL YIELD TEST

	HIBROGEORGIC RICER (3) WELL TIEED TEST
Mar	ryland Well Permit No. Ho-15-0316 Election District
Loc	cation of Property (road) Ten Oaks Road
	odivision Len Daks Janus Lot 6 Block Plat Sec.
Wel	11 Driller EASTERday Owner Sheppard Estate
	Depth of Well Distance of Measuring Point (M.P.) above ground Static Water Level (S.W.L.) below M.P. High Rate Pumping reservoir drawdown Depth of Well 100 12 2 Lat: 39. 233094 Low 2: 76.979935
I.	High Rate Pumping reservoir drawdown LONG: 76.979935
	Time pump started //:/ Pumping rate /SGFM. Total time to reach pumping water level ft. below M.P.
**	D

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

	-J Pamp coot da	1	be recorded every 1	1
.	8 8	PUMPING RATE	Primp Set 70'	
TIME	WATER LEVEL	Time to fill	FLOW METER READING	CALCULATED FLOW
	Below M.P.	gal. bucket	(if used)	(gallons per min.
11:15	36	4 Sec.		15
11:30	36′	4 sec		15
11:45	38	4 sec		. 15
12:00	39	4 sec		15
12:15	39′	4 sec		15
12:30	40'	4 Sec		15
12:45	417	4500		15
1:00	41	41 sec	16	15
1:15	41	4 sec		15
1:30	41	4 sec	=	15
1:45	42	usec		15
2:00	42′	4 sec		15
2:15	42	'4 sec	3	15
	•			
0	W	9		
	2			
			1	
	- 10	Digital 1		

Send Report To: Bert Nixon Howard Co. Health Dept.

Blvd

8930 Stanford

State of Maryland DHMH - Laboratories Administration

Division of Environmental Chemistry

TRACE METALS LABORATORY 1770 Ashland Avenue Baltimore, Maryland 21205

LABORATORY ANALYSIS REQUEST

Lab No Data Danie

E17002495001 Received: 12/14/2016

HO-15-0316 Metals

Do not write above this line

Please Print

Sample ID No:H	0-15-0316 Site Name:	Ten Daks Fam	1 Lot 6 County: Ho	ward
Sample Source:	Ten Oaks Rd. Street	Dayton Town or City	Collector:	. Collins Name
Date Collected:	2/ 13/20 16 Time (Collected: 4): 30 a.	m p.m. Phone #:	
Sample Preserved	By: Field Preservative Used: H	□ ESRL INO ₃	□ WMRL (2-14-16) mL pH: < 2-	Central Lab
Sample Type: Data Category Code □□	☐ Drinking Water ☐ Community ☐ Non-Community ☐ Private	□ Stream	☐ Source (Raw Water) ☐ Distribution (Treated) ☐ Other	
pecify Program:	SDWA □ NPDES □	CWA □ RCRA □	Consumer Products Oth	er
	eparation: Total Me e collected during		S TCLP Dissolved Metal (field preparation require	
	· · · · · · · · · · · · · · · · · · ·	3,		

✓	Element	Results (ppm)	1	Element	Results (ppm)
	Antimony (Sb)			Copper (Cu)	
	Arsenic (As)			Lead (Pb)	
	Barium (Ba)			Silver (Ag)	
	Beryllium (Be)			Zinc (Zn)	
N. Ling	Cadmium (Cd)			Aluminum (Al)	
wi-	Chromium (Cr)			Iron (Fe)	/
	Mercury (Hg)			Manganese (Mn)	Suppose Op
	Nickel (Ni)			Calcium (Ca)	Calabo Co
	Selenium (Se)			Magnesium (Mg)	Children .
V	Sodium (Na)			Potassium (K)	TRON' HA
	Thallium (Tl)			Uranium (U)	MENTA
				Vanadium (V)	(1)

Lab Supervisor:

Date Reported: /

• Fax: (443) 681-4507

DHMH 4432 (05/15)

• Phone: (443) 681-3857



State of Maryland DHMH-Laboratories Administration Division of Environmental Chemistry TRACE METALS LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH 8930 STANFORD BLVD COLUMBIA, MD 21045

Lab Project No: E17002495 Date Coll.: 12/13/2016 Date Received 12/14/2016 Submitted By: Collins

Field ID: HO-15-0316 Lab No.: E17002495001

Method Element Result Units Date Analyzed

EPA 200.7 Sodium 5.56 ppm 12/20/2016

Comments:

Approved by: Thetas Chai

Approval date: 12/21/2016

**The following methods are included in our A2LA Scope of Accreditation: EPA 200.7, EPA 200.8, EPA 245.1.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6944 and arrange for return or destruction.

Telephone: (443) 681 - 3853

Fax: (443) 681-4507

S:\EnviroFinal-Metals.rpt

Send Report To: Bert Nixon Howard Co. Health Dept. Bures of Environmental Health Division of Environmental Chemistry 3930 Stanford Blvd

INORGANICS ANALYTICAL LABORATORY 1770 Ashland Ave

Received: 12/14/2016

			nore, Maryland 2	1205 Inorganic HO-15-0316
	tun	ibia, MD 21045 WA	FER ANALY	SIS THEORY A HUNG. DO NO
SA	Bottle Number		ten Daks F	com Lat C County Howard County 1 3
M	Locatio	Ten oaks Rd.	Da	Data Category Code
LE	Collecto	ed: Date 12/13/16 Time 11:30 6	Collector & Phone	S. Collins 410-313-6287 Submitter Code
I D		Ing Water Community Non-community Private Other	Source (raw wa Distribution (tr	eater)
F	Plant	No. Sampling Station		Preservation: Iced Acid Type of Acid
I	Γ	(lavelse) con it deale and	Pojec Grav	Specific
E L	pH L	Chlorine: Free	Total	Conductance
\mathbf{D}	Notes	to Lab/Remarks: Sample collected di	wing yield	FEST
		Substitution of the control of the c	NI	Works to the constants - So o
	ECK STS	TESTS	Error Code	RESULTS
		Alkalinity (Total)	or Data Catago	ta. Thatfairf
		Ammonia - N		
\sim	\checkmark	Chloride	30	
		Conductance*, Spec.	AR A	
	/	Dissolved Solids (Total)		= 50.10
		Hardness	20	4521 (1900 : 52 ₀ - 50) Cu
		Fluoride	113	AND THE PARTY OF AN
		Nitrite, N		redT3 germal = eneme
		Nitrate - Nitrite, N		and the
		Sulfate		The Common of th
		Total Solids		No. 10 March 146
		Turbidity*	1	35971 - 534
		Other:		
		9.69.50 S. 150		Carana (S.C. <u>Trop</u>
		BOD Emilian Of ""		ngaetidet (Mittel in 1 - ex
		n upper signer of	15 10	mulishes sleft he mean sly
		and more than the state of the		grad mak on risig clusted in
		COLIVER		
		3305 CO 0550		
	Numb	Requested Section Chie	r liter (ppm)	Date Reported



State of Maryland DHMH-Laboratories Administration Division of Environmental Chemistry INORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH 8930 STANFORD BLVD COLUMBIA, MD 21045

Lab Project NoE17002492	Date Coll.	12/13/2016	Date Received	12/14/2016	Submitted B	y:Collins
-------------------------	------------	------------	---------------	------------	-------------	-----------

Field ID: HO-15-0316 Lab No.: E17002492001

 Analyte
 Method
 Result
 Units
 Date Analyzed

 Chloride
 SM 4500-CI E
 <10</td>
 mg/L
 12/19/2016

 Total Dissolved Solids
 SM 2540C
 78
 mg/L
 12/14/2016

Comments:

Approved by:

Shahler andi

Approval date: 12/21/2016

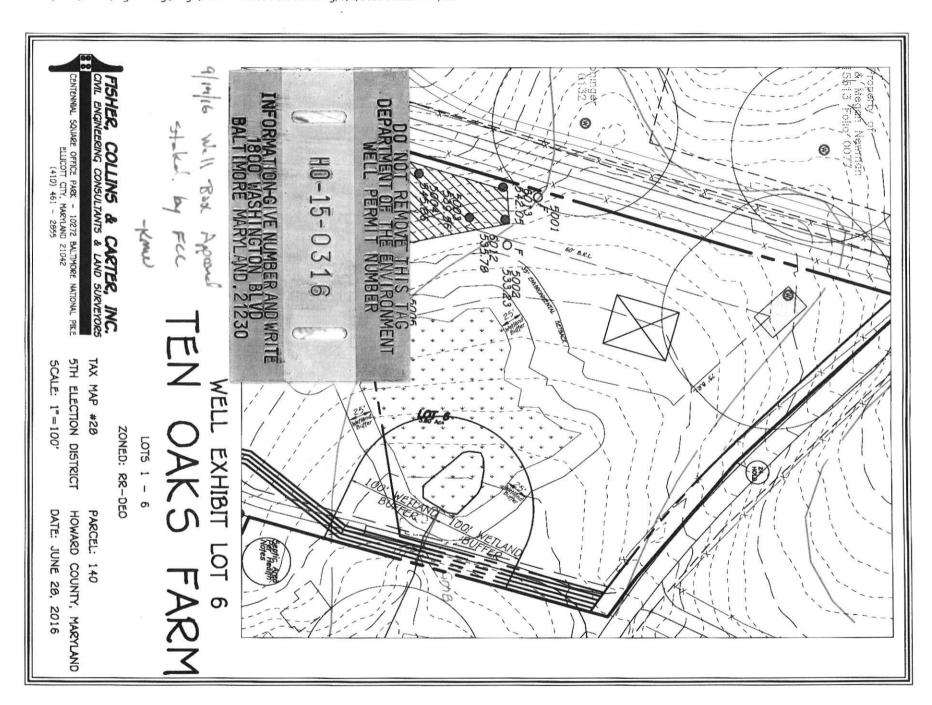
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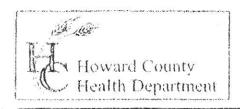
Telephone: (443) 681 - 3855

Fax: (443) 681 - 4507

S:\EnviroFinal-InorganicsA.rpt

^{*}The following methods are included in our A2LA Scope of Accreditation: EPA150.1, EPA 353.2, EPA 375.2, SM4500F C, SM 4500-CN G & QCM-CN, QCM-CN.





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 Fisher Collins v Carter
(professional land surveyor or company employing professional land surveyors)
on 6-22-16 (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

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

TEN DAKS FARMS

proposed well site location.

FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
12/13/16	On site during yield test. Test started 11:15 am, well 100; pump
	@ 70', 36' measuring point, 12' statie, 15 gpm. Sodium. chloride
	+ TDS samples collected at 11:30 am (Sc)
,	
,	, ·
	a .