C 1 4056 SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY	
(THIS NUMBER IS TO BE PURCHED IN COLS. 3-6 ON ALL CARDS	PLEASE TYPE	NUMBER	
ST/CO USE ONLY DATE Received MM DD M B 13	Depth of Well 22 20 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" 28 29 30 31 32 33 34 35 36 37	
OWNER Opchurch	1 Day	211	
STREET OR RFD last riling	Orchard Chiet Days TOWN	1114501114	
SUBDIVISION	SECTION	LOT	
Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	C 3	
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	TYPE OF GROUTING MATERIAL (Circle one)	PUMPING TEST 3	
DESCRIPTION (Use additional sheets if needed) FROM TO if water bearing	CEMENT CIM BENTONITE CLAY BC	PUMPING RATE (gal. per min.)	
Overburded of 7'	DEPTH OF GROUT SEAL (to nearest foot) from ft. to ft.	METHOD USED TO MEASURE PUMPING RATE WARMS - Bulkey	
Soft Brew 7'59"	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface) casing CASING RECORD	BEFORE PUMPING 17 ft.	
1 PV 59 300	types insert appropriate code below	WHEN PUMPING 22 25 ft. TYPE OF PUMP USED (for test)	
smy hock 37 300	MAIN Nominal diameter Total depth top (main) casing of main casing	A air P piston T turbine	
	TYPE (nearest inch)! (nearest foot) 60 61 63 64 66 70	C centrifugal R rotary O (describe below) I jet S submersible	
Hit waster 87'	E OTHER CASING (if used) A diameter depth (feet) H inch from to	PUMP INSTALLED	
	C	DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION	
	screen type SCREEN RECORD	MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) 29	
	insert appropriate code below PL I	IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35	
	PLASTIC OTHER	PUMP HORSE POWER	
NUMBER OF UNSUCCESSFUL WELLS:	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)	
WELL HYDROFRACTURED Yes YOU N	E 1 8 9 11 15 17 21 C 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 ELECTRIC LOG OBTAINED TEST WELL CONVERTED TO PRODUCTION	S 23 24 26 30 32 36 C 3 R 38 39 41 45 47 51 E	LAND SURFACE (nearest) 49 below foot)	
WELL I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "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.	SLOT SIZE 1 2 3	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES	
DRILLERS LIC. NO. 1 M 2 D L 2 1	GRAVEL PACK	(MEASUREMENTS TO WELL) N 95 1939	
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 D 1	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	W 07656352	
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	70	•	
DENV-CR00	COUNTY		

	7004	SEQUENCE NO.	STATE OF	MARYLAND	STAT	TE PERMIT NUMBER
B 1	3804	(MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL		HA	95 1929
1 :	2 3 6		please type		70	1) -1/2/
		. 9	633282 Pleas			this form completely
י ו	Date Received (APA)		DMATION	B 3 Howard	LOCATION OF	WELL
1	3 MM DO YY 13	OWNER INFOR	HMATION	8 COUNTY		21
١,	Upchurch	Don		Fulton M	lanor II	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
· '	15 Last Name	Owner	First Name 34	23 SUBDIVISION		42
١,	457 Old	Orchard Circle	f .	SECTION L	LOT L	
1	36	Street or RFD	55	44 46	48 50	
1	Millersv	ville MD	21108	Highland	I	1
	7 Town		72 Zip 76	52 NEAREST TOWN		71
	DRILLER INFORI		100	MILES FROM TOWN (ente		M
ļ			M W D 120	B 4	73	76 77 78
	Driller's Name		2.00.100	1 2	Placent	View Drive
1	Firm Name	Harr Sons' Co	r.h.	DIRECTION OF WELL FROM TOWN (CIRCLE BOX)	/	AR WHAT ROAD 30
		ile Road Cock	eysville 21030	N		NOTE
	Address	1	cybville 21050			BOPRIATE BOX)
	Sange	(/ the	6/2/10	8-9	(00227	45 WEST SEAST
	Signature		Date	W (TOWN) E	34	37 SOUTH
В		ORMATION	5		DIS	TANCE FROM ROAD
1		ROX. PUMPING RATE — PER MIN.)	8 12			ENTER FT OR MI 38 39
	AVERAGE DAILY QUAN		750	S _W S _E	TAX MAP: 40	BLK: 6 PARCEL 205
<u> </u>	GAL. PER DAY)	14 OD WATER 1919 5 15	20	8 NOT TO	O DE EULED IN	DV DDII I ED
1	OSE F	OR WATER (CIRCLE AP	PHOPHIATE BOX)		O BE FILLED IN H DEPARTMENT	
	DOMESTIC PO	TABLE SUPPLY & RESIDEN	NTIAL	House	1 (12)	1522420
	- FARMING A BA	ESTOCK WATERING & AGR	ICUI TUBAI	COUNTY NAME		COUNTY NO.
	IRRIGATION	EUTOOK WATELING & AGIT	NOOLI OT WIL	STATE	All Com	
22	I INDUSTRIAL, C	COMMERICIAL, DEWATERIN	NG P	SIGNATURE	1.11-10	INSERT S
1	P PUBLIC WATER	R SUPPLY WELL		DATE ISSUED	on an 10	abor 6/21/2011
	T TEST OBSERV	ATION, MONITORING		43 MM DD YY 48	CO SIGNATUR	E EXP. DATE
	G GEO-THERMAI			NORTH 490 0	0 0 GRID	000
_	G GEO-MENWA	<u>-</u>	\\	50	55 57	63
		301		SHOW MAJOR FEATURES BOX & LOCATE WELL '-		
	APPROXIMATE DEPTH	OF WELL	FEET 28	WITH AN X		
	ADDDOVINATE DIAMET	(NEAREST	SOURCES OF DRILLING	WATER	
	APPROXIMATE DIAMET	ER OF WELL	INCH	1. Well	100	
	M	ETHOD OF DRILLING	(circle one)	3.		
	BORED (or Augered)	JETTED	Jetted & DRIVEN	0.		
	AIR-ROTary	AIR-PERcussion	ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMBE	R	/
37	CABLE	REVerse-ROTary	DRive-POINT	FROM THE MAP HERE		/
	other			0.14	7	()
	REPL	ACEMENT OR DEEPE	ENED WELLS	E 810		
(N) of the	(CIRCLE APPROPRIATE	5	497	000	
-	3594	NOT REPLACE AN EXISTI		N		
	Y THIS WELL WILL ABANDONED AN	REPLACE A WELL THAT I D SEALED	WILL BE	DRAW A SKETCH BELOW RELATION TO NEARBY T		
		REPLACE A WELL THAT	WILL BE USED	DISTANCE FROM WELL 1		
39	AS A STANDOT-C	CONTACT LOCAL APPROV STANDBY WELLS	ING AUTHORITY		1 +	d
	D. Land	DEEPEN AN EXISTING WI	ELL		1 8	12
		VELL TO BE REPLACED O	R DEEPENED	Al	1 / 8	2
	IF AVAILABLE) 41		52	N	0 /3	0
	Not to be filled i	n by driller (MDE OR C	OUNTY USE ONLY)	A	100	2
	67		•		12	>
'	APPROP. PERMIT NUM	BER			1 = 0	The second secon
		PERMIT No. HO-	-95-1909	L	AUSHOP	
_		70 71 7	2 73 74 75 76 77 78 79		20	
;	SPECIAL CONDITION OTE - APPROVING AUTHORITIES SHO	NS DULD USE SEPARATE SHEET IF NEEDED =				⊕

HARR WELL DRILLING

12047 FALLS ROAD COCKEYSVILLE, MD 21030 410-252-4588

HOWARD COUNTY WELL YIELD TEST REPORT

Date Test Performed: 09-07-10 Address: Pleasant View Road

Owner: Don Upchurc

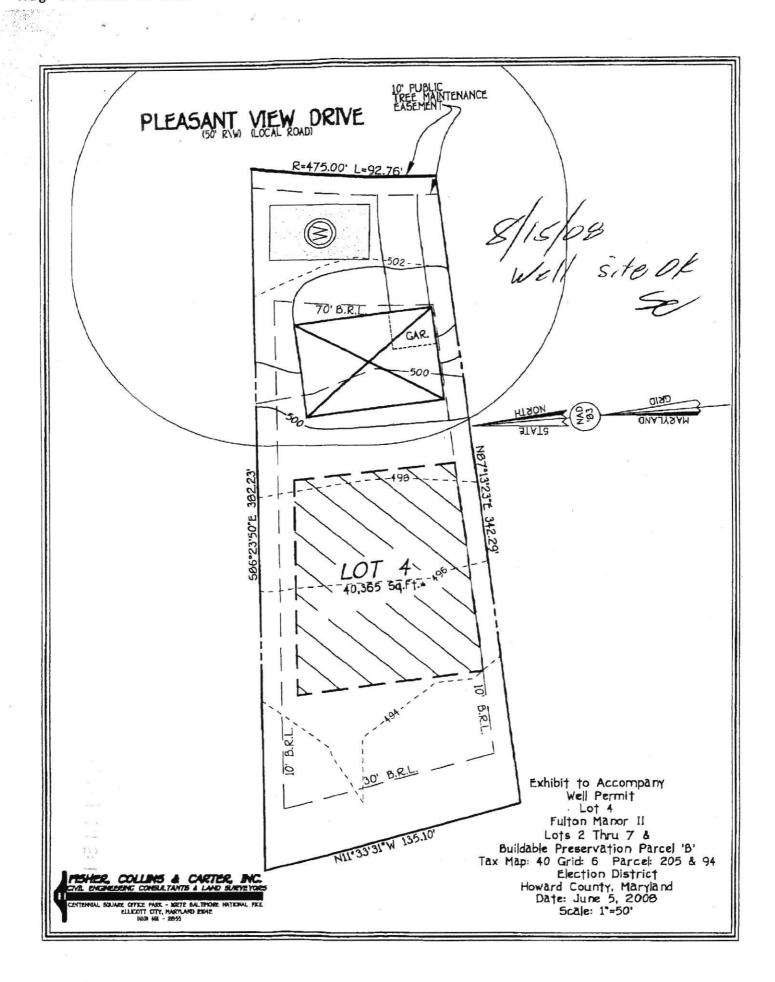
Well Depth: 300 Ft

Permit Number: HO-95-1929 Subdivision: Fulton Manor II L#4

Election District:

Static Water Level: 20 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 5 Gallon bucket	Calculated Flow-Gallons Per Minute
0815	20 ft		15 sec	20.00
0830	30		15	20.00
0845	36		15	20.00
0900	36		15	20.00
0915	36		15	20.00
0930	36		15	20.00
0945	36		15	20.00
1000	36		15	20.00
1015	36		15	20.00
1030	36		15	20.00
1045	36		15	20.00
1100	36		15	20.00
1115	36		15	20.00



MDE LISE ONLY)	MARYLAND STATE PERMIT NUMBER
1 2 3	se type
32/300	fill in this form completely
Date Received (APA) OWNER INFORMATION	B 3 LOCATION OF WELL
8 MM DD YY 13	8 COUNTY 21
Upchurch Don 15 Last Name Owner First Name 34	Fulton Manor II 23 SUBDIVISION 42
457 Old Orchard Circle	SECTION L LOT L
36 Street or RFD 55 Millersville MD 21008	44 46 48 50 Highland
57 Town 70 State 72 Zip 76	52 NEAREST TOWN 71
DRILLER INFORMATION	MILES FROM TOWN (enter 0 if in town) 1 M I 73 76 77 78
Michael D. Isom MSD 162 Driller's Name 76 License No. 81	B 4
G. Edgar Harr Sons' Corp.	1 2 DIRECTION OF WELL FROM Pleasant View Drive
Firm Name 12041 Falls Road, Cockeysville 21030	TOWN (CIRCLE BOX) 11 NEAR WHAT ROAD 30 NORTH
Address Address	NW 8 NE (CIRCLE APPROPRIATE BOX)
Signature Date	WEST S EAST
B 2 WELL INFORMATION	34 2 00 37 SOUTH B DISTANCE FROM ROAD
1 2 APPROX. PUMPING RATE (GAL. PER MIN.) 8 12	ENTER FT OR MI 38 39
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20	8-9 S 8-9 TAX MAP: BLK: PARCEL
USE FOR WATER (CIRCLE APPROPRIATE BOX)	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION	Homasod A520877
F FARMING (LIVESTOCK WATERING & AGRICULTURAL	COUNTY NAME COUNTY NO.
irrigation 22 Industrial, Commercial, Dewatering	STATE SIGNATURE INSERT S
P PUBLIC WATER SUPPLY WELL	DATE 1880ED 8 /m/ 18th 8/15/09
T TEST, OBSERVATION, MONITORING	43 MM DD/ YY 48 CO SIGNATURE EXP. DATE NORTH LAG 1 EAST
G GEO-THERMAL	GRID 50 0 0 GRID 0 0 0 0 57 63
ADDROVIMATE DEDTIL OF WELL 300 LEFET	SHOW MAJOR FEATURES OF BOX & LOCATE WELL
APPROXIMATE DEPTH OF WELL 24 28	WITH AN X
APPROXIMATE DIAMETER OF WELL NEAREST INCH	SOURCES OF DRILLING WATER 1. We like the sound of the so
METHOD OF DRILLING (circle one)	2.
BORED (or Augered) JETTED Jetted & DRIVEN	3.
30 AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMBER
other	FROM THE MAP HERE
REPLACEMENT OR DEEPENED WELLS	E 8107 000 / (X)
(CIRCLE APPROPRIATE BOX) THIS WELL WILL NOT REPLACE AN EXISTING WELL	N 490 - 000 /
THIS WELL WILL REPLACE A WELL THAT WILL BE	DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN
ABANDONED AND SEALED	RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION
39 AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS	/ 3
THIS WELL WILL DEEPEN AN EXISTING WELL	1 2 A
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 — 52	N Q /5
Not to be filled in by driller (MDE OR COUNTY USE ONLY)	Peosa (8)
APPROP, PERMIT NUMBER	000
HU 91 1663	10-
PERMIT No. 70 71 72 73 74 75 76 77 78 79	HALL Shop Rd
SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED =	⊕

	C 1 9307 (MDE-USE-ONLY)	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED.
	1 2 3	WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY	COUNTY A49482 A
	ST/CO USE ONLY DATE WELL COMPL	PLEASE TYPE ETED Depth of Well	PERMIT NO.
١	DATE Received MM DD YY	22 185 26	FROM "PERMIT TO DRILL WELL" HO-94-1958
١	8 3 13 15	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
١	STREET OR RFD Idst name Fields	Fod CT first name. TOWN 7	Paisy
	SUBDIVISION Warfields G	Cant SECTION Z	LOT
١	WELL LOG Not required for driven wells	GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box)	C 3
١	STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	(Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one)	HOURS PUMPED (nearest hour) 3
	DESCRIPTION (Use additional sheets if needed) FEET check if water bearing	CEMENT CIM BENTONITE CLAY BC	100N3 FOWIFED (Healest Hour)
	Ceaning	NO. OF BAGS /// NO. OF POUNDS ////////////////////////////////////	PUMPING RATE (gal. per min.)
	Top Soil 0 2	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
-	ور موجول أن في المحاصر الماريون والمحاصرين	from th. to ft. to 54—BOTTOM 58 (enter 0 if from surface)	WATER LEVEL (distance from land surface)
	Brown Shalf 2 45	casing CASING RECORD	BEFORE PUMPING 43 ft.
1	Brown SLARE 45 50	types insert STT CO	WHEN PUMPING
	3Lng S(A)e 50 60	appropriate code below	22 25 TYPE OF PUMP USED (for test)
		MAIN Nominal diameter Total depth	A air P piston T turbine
	Brown Slade 60 65 / Blue Slade 65 185	CASING top (main) casing of main casing TXPE (nearest inch)! (nearest foot)	C centrifugal R rotary O other (describe
	NI STATE 45 185	$\frac{PL}{60 \ 61} \frac{6}{63 \ 64} \frac{59}{66}$	27 below)
-	304 g 50.4 - 50	E OTHER CASING (if used)	J jet (S) submersible
		A diameter depth (feet) C inch from to	PUMP INSTALLED
١		C 4 φ	DRILLER INSTALLED PUMP (CIRCLE) (YES or NO)
		g	IF DRILLER INSTALLS PUMP, THIS SECTION
	*	screen type SCREEN RECORD	MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED
		or open hole ST BR insert STEEL BRASS OPEN	PLACE (A,C,J,P,R,S,T,O) 29 IN BOX 29.
		(appropriate code BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
		below PLASTIC OTHER	(to nearest gallon) 31 35 PUMP HORSE POWER
	NIIMBED OF INSURCESSELL WELL OF	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH 41
1	NUMBER OF UNSUCCESSFUL WELLS: yes yes	185	(nearest ft.) 43 47 CASING HEIGHT (circle appropriate box
	WELL HYDROFRACTURED Y	A 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)
	CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED	H ² 23 24 2630 32 36	LAND SURFACE
	E ELECTRIC LOG OBTAINED	C 3 R 38 39 41 45 47 51	below)
	P TEST WELL CONVERTED TO PRODUCTION WELL	E E SLOT SIZE 1 2 3	LOCATION OF WELL ON LOT
	I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE	DIAMETER (NEAREST OF SCREEN INCH)	SHOW PERMANENT STRUCTURES AND INDICATE NOT LESS THAN TWO DISTANCES
	CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST, OF MY KNOWLEDGE.	56 60 from to	(MEASUREMENTS TO WELL)
	DRILLERS LIG. NO. 1 M Sp 1/6 1	GRAVEL PACK	
	DRILLERS SIGNATURE	IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 68	veil sor 1
	(MUST MATCH SIGNATURE ON APPLICATION)	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	000 M
	LIC NO. 1 MS DATE	T (E.R.O.S.) W Q	45)
	SITE SUPERVISOR (sign. of driller or journeyman	70 72 74 75 76	
-	responsible for sitework if different from permittee)	TELESCOPE LOG CASING INDICATOR OTHER DATA	page.
	DENV_CR97	© COUNTY	

