5/3/9/ All,

PERMIT

03-313334

SEWAGE DISPOSAL SYSTEM

A 38633

46955

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

DISTRICT 3rd

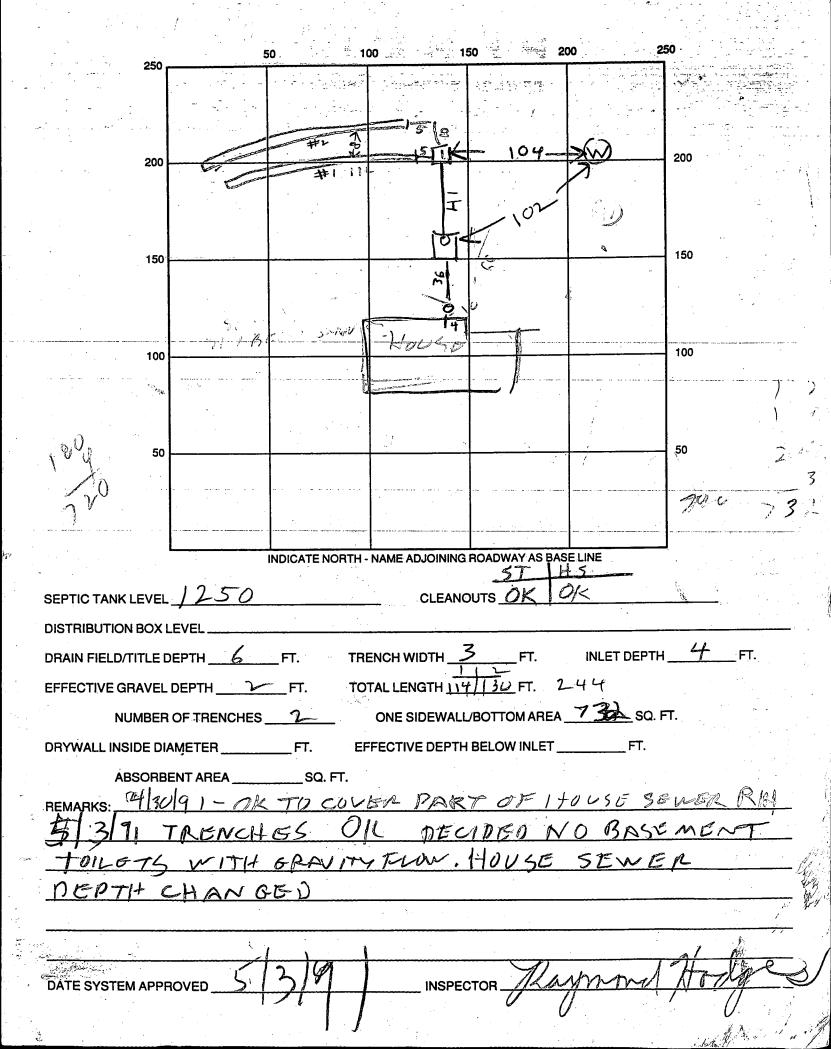
HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH 461-9933

INDEXED

DATE 04/01/91DATE SYSTEM APPROVED 5/3/9INSPECTOR RH

Walter King Plumbing and Heating Contractors, Inc. S PERMITTED TO INSTALL X ALTER
ADDRESS 5305 King's Court, Frederick, Maryland 21702 PHONE
SUBDIVISION Willow Highlands LOT 10 ROAD 1752 Willow Springs Drive
PROPERTY OWNERPulte Homes
ADDRESS
SEPTIC TANK CAPACITY 1250 GALLONS
NUMBER OF BEDROOMS 4
180 SQUARE FEET PER BEDROOM
LINEAR FEET OF TRENCH REQUIRED240
TRENCHES - 180 sq. ft. per bedroom. Trench to be 3 feet wide. Inlet 3.5 feet below original grade. Bottom maximum depth 5.5 feet below original grade. Effective area begins at 3.5 feet below original grade. 2 feet of stone below distribution pipe. LOCATION - Start the first trench 150 feet off the rear lot line and 160 feet off the left lot line as seen when facing the lot from Willow Springs Drive. Run trenches on contour toward the left lot line. NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank.
PLANS APROVED BY DATE 02/27/91
COVER NO WORK UNTIL INSPECTED AND APPROVED
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS NOT ACCEPTABLE.
NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)
NOTE: -IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)
NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH
NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS
PERMIT VOID AFTER TWO YEARS
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON. CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

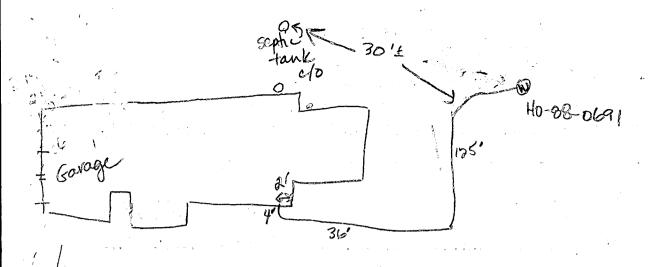


HOWARD COUNTY HEALTH DEPARTMENT Bureau of Environmental Health 3525-H Ellicott Mills Drive Ellicott City, MD 21043 461-9933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

		Receipt # 46954 Date 4/1/9/
Name of Installer Walter W	. King Plbg. & Htg. Contr	Telephone $310-662-6990$
License Number Md2217 Certified Well Pump Install	er Well Driller	Registered Plumber <u>x</u>
Name of Property Owner Pu Subdivision Willow Springs Site Address 1752 Will Sykesvil	Lot # 10 We	Telephone 301-921-8707 11 Tag # HO - 88 - 0691
Pump 1. Type a. Deep well jet b. Shallow well jet c. Submersible 2. Make Goulds 3. Model \$ 5 ES 07422 = 4. Capacity 5 GP 5. Pump exceeds well capaci 6. If Yes, is low pressure 7. What methods are used to	ty Yes No X cutoff switch installed?	
vibrations? Torque arr Tank	Piping 1. Type Plastic 160#	Well data 1. Depth 185 ft.
 Capacity42 Pressure relief valve?yes 	2. Size 1" 3. NSF and/or BOCA Code approved x 4. Depth of supply line 42" min 60" max	2. Yield 10 GPM 3. Static water level ft. 4. Will water supply be disinfected by installer? yes

HD-215



Willow Springs

5-9-91 WPI. Pilless adaptor at 41 inches below grade. Well line at 40 inches below grade. House connection ok. JENadean

RECEIVED HOWARD COUNTY HEALTH DEPT.

APPLICATION

PERCOLATION TESTING

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

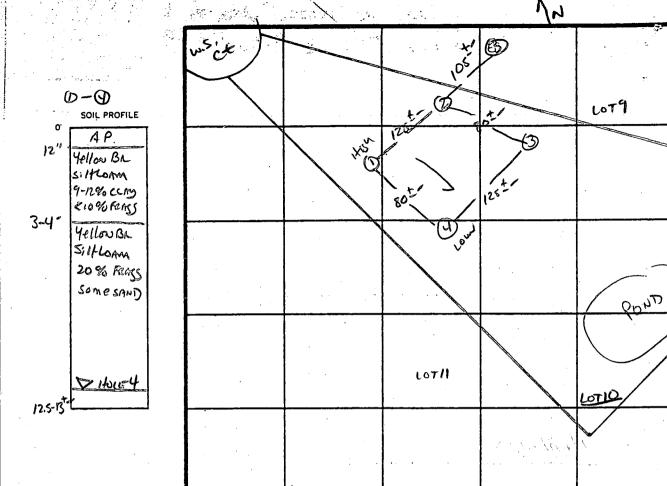
л <u>3863</u>3

DISTRICT

	P.O. BOX 476 ELLICOTT CITY. MARYLAND 21043 TELEPHONE: 461-9933	DATE 12-16-1986
	TELEFITORIE. 401 3303	
TO:	THE COUNTY HEALTH OFFICER	
	ELLICOTT CITY, MARYLAND	
	I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTE	M
9000	ERTY OWNER WHILLOW SPRINGS CHMITED PARTNERSHIP Palte A	Home Corporation
PROF	16801 WESLEY CHAPEL ROAD	921-8707
	ADDRESS MONKTON, MARYLAND 21111 PHONE	347-8700
PROS	PECTIVE BUYER	·
	DUANT	
4. 4.	ADDRESSPHONE	•
PROP	ERTY LOCATION:	
	1+15hlands	10
SUBD	IVISION WILLOW SPRINGS GOLF COURSE LOT NO.	10
2012	AND DESCRIPTION N/S U.S. RTE TO N AT LIVE STOCK	ROAD
RUAU	AND DESCRIPTION	
	1752 Willow Springs Drive	
	9415 151911	
TAX	MAP 9 \$ 15 PARCEL # 151 \$ 11	
S17F (OF LOT	.D.
3122 \		E FAMILY DWELLING OR COMMERCIAL)
THE	SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AV	AILABLE I FULLY UNDERSTAND THE
-	COMMECTED MITH THE SHANC OF THIS PERCENT AND LOAD OF THE SHAND OF THE	
, ree	CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUM. S Parag	
WITH	HALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT By Theres CA	
	(SIGNATURE OF APPLI	CANT) Pres
	OVED BY Standard fund	C-2-89
APPRO	OVED BY	_ DATE
REJEC	CTED BY FOR	_ DATE

	PENDING FURTHER TESTS	DATE
85.5	Har Sibelinian 1814-87 Ras Small man - Hara For Sibelinian 115	e S. Alu J
REAS	ONS FOR REJECTION OR HOLDING 4-14-87 REAS SAMSMETORY - HOLD FOR SUBJUILIED AND BLOG PERI	WIT SIGNADY

THIS IS NOT A PERMIT



FREEC FMIN 180 \$1BR INLET 3,5 BOTTOM 5,5

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

	_	1	I PR	E-WET	TEST -	1" DROP	I
DATE	TEST NO.	DEPTH	START	STOP	START	STOP	TIME
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17187	IM	7,5	12:01	12:06	12:06	12:12	6 MIN
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				<u> </u>			

REMARKS .	1 tous Diff THAN	RAT Shallow Syst	Owly	
TYPE OF SOI				U-KETTERENDAN
TESTED BY	S. Abel		ALSO PRESENT	

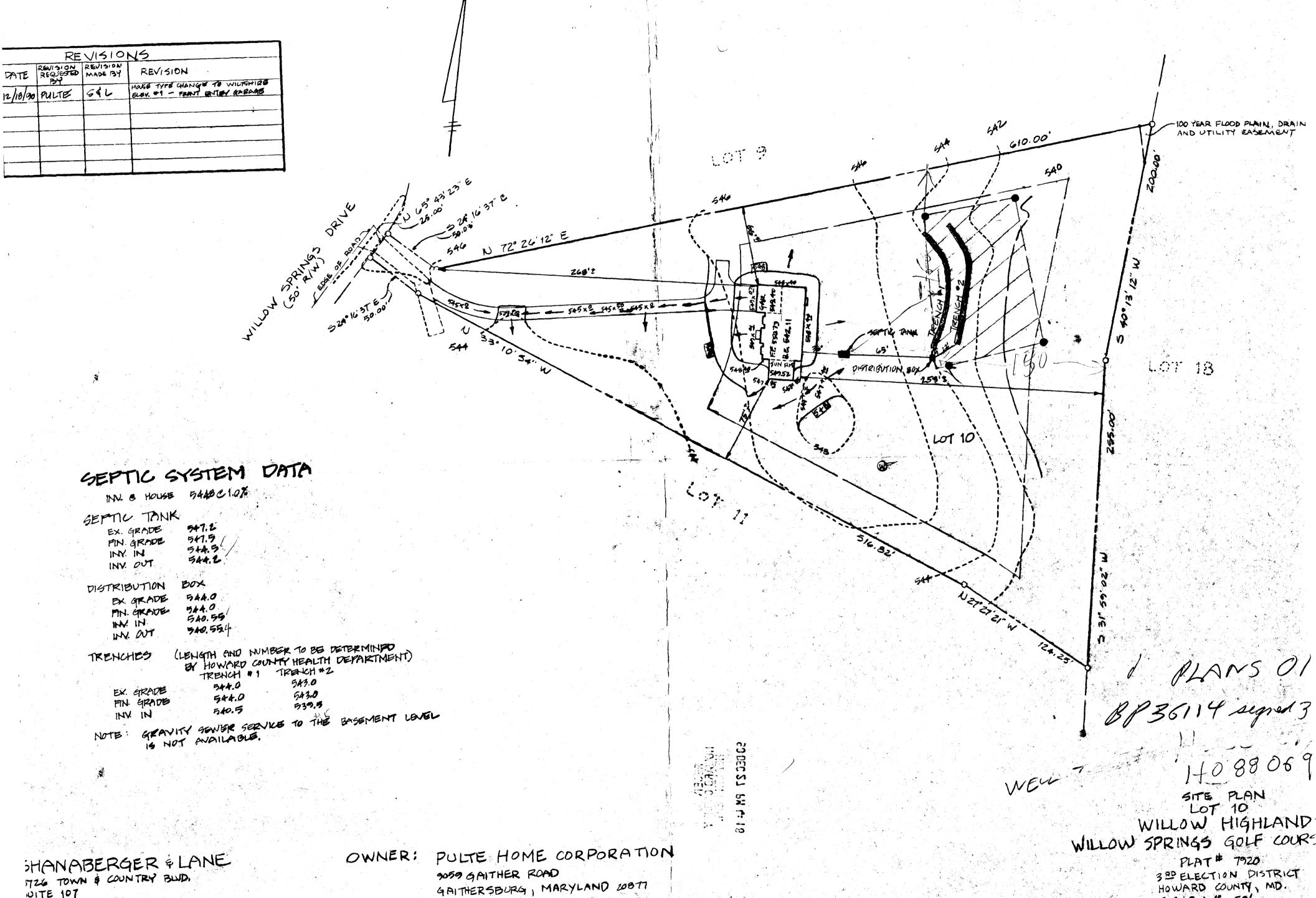
. EH-12-1079

HOWARD COUNTY

PERMIT APPLICATION

DEPARTMENT OF PUBLIC WORKS
SUREAU OF PUBLIC WORKS
SUREAU OF PUBLIC WORKS 3430 COURT HOUSE DRIVE, ELLICOTT CITY, MARYLAND 21043

SYKESVILLE MD. 278/ BUILDING A NEW STR. AREA BLOCK NO. LIBER FOLIO SING LE FAMILLY SING CONTROL SING LE FAMILLY SING CONTROL SI	1752 WILLOW SPRINGS DRIVE	GRADING/SEDIMENT CONTROL DYES DNO	207 5
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		White - Building Official Print - Health Dept. Green - Planning & Zoning Gold - S.H.A.	radisalist salis. Posta septes
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1726 TOWN & COUNTRY BLUD. WITE 107 LLICOTT CITY, MD. 21043 301) 461-9563

GAITHERSBURG, MARYLAND 20877

(301) 921-8707

SCALE: 1" . 50' DATE : 6/16/89

01 9465		NCE NO. SE ONĻY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 6 (THIS NUMBER IS TO BE FIN COLS. 3-6 ON ALL CAR			FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE	COUNTY A-38633
DATE Received	DATE WE	LL COMPLETE	D Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL"
8 13	06	ग्रेश्वर	22 S 26 (TO NEAREST FOOT):	HO-818-0691
OWNER \u2214	11606	Spn	and limited	28 29 30 31 32 33 34 35 36 37
STREET OR RFD	last name	<u> </u>		noukton mp
SUBDIVISION WELL	//// 00 LOG	<i>17 1</i> 71	GROUTING RECORD VOS DO	LOT /
Not required for STATE THE KIND OF			WELL HAS BEEN GROUTED (Circle Appropriate Box) (Circle Appropriate Box)	
PENETRATED, THEIL THICKNESS AND IF	R COLOR,	DEPTH,	TYPE OF GROUTING MATERIAL	PUMPING TEST HOURS PUMPED (nearest hour)
DESCRIPTION (Use	FEET	Check if water	CEMENT CM BENTONITE CLAY B C	PUMPING RATE (gal. per min. 7 7
additional sheets if needed)	FROM	TO bearing	NO. OF BAGS 12 NO. OF POUNDS 1200 GALLONS OF WATER 22	to nearest gal.)
			DEPTH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE
700 Soil	0	2	from 6 ft. to 3 4 BOTTOM 58 (enter 0 if from surface)	WATER LEVEL (distance from land surface) BEFORE PUMPING
Sandy	2_	35 1	casing CASING RECORD	WHEN PUMPING Z
			insert appropriate STEEL CONCRETE	TYPE OF PUMP USED (for test)
Sand Stone	35	50	code below PLASTIC OTHER	A air P piston T turbine
MICKA	50	>5	MAIN Nominal diameter. Total depth CASING top (main) casing of main casing	C centrifugal R rotary Other (describe 27 below)
SANdStore	75	80 0	TYPE (nearest inch) (nearest foot)	J jet S submersible
MICKA	80	185	60 61 63 64 66 , 70 E OTHER CASING (if used)	
MICKA		,	diameter depth (feet) H inch from to	PUMP INSTALLED
			CAS	DRILLER WILL INSTALL PUMP YES (CIRCLE) (YES or NO)
		\$		ÎF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS
*.****			screen type SCREEN RECORD or open hole	EXCEPT HOME USE TYPE OF PUMP INSTALLED
			insert STEL BRASS OPEN	PLACE (A,C,J,P,R,S,T,O) IN BOX-SEE ABOVE:
<u>'</u>			code BRONZE HOLE	CAPACITY: GALLONS PER MINUTE
7			below PLASTIC OTHER	(to nearest gallon) PUMP HORSE POWER
	21	3	<u>C[2]</u>	PUMP COLUMN LENGTH
and the second of the second o	er set		DEPTH (nearest ft.)	(nearest ft.)
\$ 13 m				CASING HEIGHT (circle appropriate box and enter casing height)
			H ₂ S C 23 24 26 30 32 36	LAND SURFACE (nearest foot)
CIRCLE APPROF	ONED AN	D SEALED	R 3 38 39 41 45 47 51	LOCATION OF WELL ON LOT
WHEN THIS WELL W E ELECTRIC LOG OBTA		LETED	N 38 39 41 45 47 51)	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
D TEST WELL CONVER		RODUCTION	DIAMETER (NEAREST	N LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES
I HEREBY CERTIFY THAT THIS WEL	L HAS BEEN	CONSTRUCTED IN	OF SCREEN 60 INCH)	(MEASUREMENTS TO WELL)
ACCORDANCE WITH COMAR 10.1 AND IN CONFORMANCE WITH ALL ABOVE CAPTIONED PERMIT, AN	CONDITION	S STATED IN THE	GRAVEL PACK	
PRESENTED HEREIN IS ACCURATE OF MY KNOWLEDGE.	AND COMPL	ETE TO THE BEST	IF WELL DRILLED WAS FLOWING WELL INSERT	
DRILLERS IDENT, NO.	223	<u> </u>	F IN BOX 68 68 OEP USE ONLY	39"
DRILLED COMMON IN	May	vel	(NOT TO BE FILLED IN BY DRILLER)	The state of the s
DRILLERS SIGNATURE (MUST MATCH SIGNATURE	E ON APPI	LICATION)	T (E.R.O.S.) WQ	A 25. 6
SITE SUPERVISOR (sign. o	f driller or	iournovman	70 72 TELESCOPE LOG OTHER DATA	
responsible for sitework if			CASING INDICATOR	
-	~	- AS - A	HEALTH	The second second

B 1 - 7956 SEQUENCE NO.	STATE OF	MARYLAND	STATE PERMIT NUMBER
(8: 662 6:121)		DRILL WELL	401-10181-1061617
(THIS NUMBER IS TO BE PUNCHED		int or type	fill in this form completely
IN COLS. 3-6 ON ALL CARDS)		, , , , , , , , , , , , , , , , , , ,	Land to the second seco
Date Received (APA)		B 3	LOCATION OF WELL
OWNER INFORMA	NTION	HUWAND	
WILLOW SP LIM	1460	8 COUNTY	21
15 Last Name Owner	First Name 34	23 SUBDIVISION	HIEHKANDS 1
36 Street or RFD	CH RD	SECTION .	101 110
monuton	2021111	44 46	48 50
57 Town 70	State 72 Zip 76	52 NEAREST TOWN	11 E 20 5 H 1 P 1
DRILLER INFORMATIO)N	·	
KAUL MAYAS	223	MILES FROM TOWN (en	ter 0 if in town) 1 73 76 77 78
TALLA MAYNE WELL OF	77 License No. 80	B 4	[50 0
Firm Name	arec jug	1 2 DIRECTION OF WELL FROM	11 NEAR WHAT ROAD 30
9120 Brown Chunch	NJ. Mt Ding	TOWN (CIRCLE BOX)	NORTH
Address Market Market	5/1/8		ON WHICH SIDE OF ROAD
Signature	Date	W E 8-9	(CIRCLE APPROPRIATE BOX) WEST EAST
B 2 WELL INFORMATION		W TOWN E	SOUTH
APPROX. PUMPING RATE (GAL. PER MIN.)	1		rs a la
AVERAGE DAILY QUANTITY NEEDED	12	[S]	34 30 0 37 DISTANCE FROM ROAD
(GAL. PER DAY)		S _W S _E S _E 8–9	ENTER FT or MI
LISE FOR WATER (CIRCLE APPR	<u> </u>	8	38 / 39
USE FOR WATER (CIPCLE APPRI	,	4.	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
O HOME (SINGLE OR DOUBLE HOUSEH)		the said	4 A
F FARMING (LIVESTOCK WATERING & A	AGRICULTURAL	COUNTY NAME	A 38633 COUNTY NO.
INDUSTRIAL, COMMERCIAL, STATE A	ND FEDERAL GOV.	STATE	
22 U OTHER (REQUIRES APPROPRIATION F		SIGNATURE DATE ISSUED	INSERT S 41
P APPROPRIATION PERMIT AND STATE F	HEALTH DEPARTMENT	060289	Irchan Celul 12-01-89
APPROVAL)		NORTH CALL TO	O SIGNATURE EXP. DATE
TEST, OBSERVATION, MONITORING (NAME OF APPROPRIATION PERMIT)	MAY REQUIRE	GRID 50	0 0 GRID 63 8 0 0 0 63
		SHOW MAJOR FEATUR	RES OF (//3/89 0/3)
APPROXIMATE DEPTH OF WELL 150	FEET	BOX & LOCATE WELL. WITH AN X	
	28	SOURCES OF DRILLING	G WATER WOLL OR
APPROXIMATE DIAMETER OF WELL	NEAREST INCH	1. Well	SEE ONER
METUOD OF DRULING		2.	\$ 100 15
METHOD OF DRILLING (·	3.	1211
BORED (or Augered) <u>JETTED</u> 30- AIR-ROTAIN AIR-PERcussion RC	Jetted & <u>DRIVEN</u> DTARY (Hydraulic Rotary)	WRITE THE BOX NUME FROM THE MAP HERE	
CABLE REVerse-ROTary	DRive POINT	THOM THE MAP HERE	
<u>NEV</u> erse NOT ary	DHIVE TONY	E SOB	8
other		3 547	000
REPLACEMENT OR DEEPENE	D WELLS	\	000
(CIRCLE APPROPRIATE B	OX)	RELATION TO NEARBY	OW SHOWING LOCATION OF WELL IN 'TOWNS AND ROADS AND GIVE
N THIS WELL WILL NOT REPLACE AN E		DISTANCE FROM WEL	L TO NEAREST ROAD JUNCTION
THIS WELL WILL REPLACE A WELL T	HAT WILL BE	N	
39 THIS WELL WILL REPLACE A WELE T	HAT WILL BE USED		
AS A STANDBY	1	Mean	
D THIS WELL WILL DEEPEN AN EXISTIN		Leanten	CD C
PERMIT NUMBER OF WELL TO BE REPLACE (IF AVAILABLE) 41 CONTROL		way w	LLOW SP.
(IF AVAILABLE) 41 O5	52	J	DN 300'-
Not to be filled in by driller (OEP t	JSE ONLY)		West .
APPROP. PERMIT NUMBER G	AP		Bluck
54	63		~
FORCE WRITE INITIALS PERMIT NO.	88-0691		▼
	73 74 75 76 77 78 79	<u> 1</u>	
SPECIAL CONDITIONS		•	

6/12/89

0 49 F1 pps 2) 34/2 F1 open hole 3) 12 bogs 4) Lo cuten O/2 BHMgs

HEALTH DEPT.
HEALTH DEPT.
HEALTH DEPT.
HEALTH DEPT.
HEALTH DEPT.
HEALTH DEPT.

YTEMES

Fredericktowne Labs, Inc. P.O. Box 244 — Main Street Myersville, MD 21773

CERTIFICATE OF ANALYSIS

Phone @94-71:

293-334

FIELD RECORD	LABORATORY RECOR	ID
Sample Source: Lot #10 Date 7/8/91 Willow Springs Development Time 2:15 pm	Received: 7/8/9/ 3:00 Examined Presumptive Bacteriological Test Confirm	
Sykesville, Md. Iced (89)	ml. of Sample 20ml, ml. of S.	ample 3 0ml.
рн <u>6.0</u>	Gas. 24 hours — — — — Coliforn	15
13/	Gas. 48 hours 💝 — — Fecal C	oliforms
Res. Cl		,
Well No.	Coliforms/190 ml. N(NOx) Turbidity Lea Total Fedal (mg/l) (NTU) (mg	
county Howard	41.1 41.1 3.9 32	
The above field information was supplied by:		11
Kusty Stone	Bacteriological analysis of this sample i	:∖ indicates the water i
Affiliation Lulligan	sale for human consumption.	
This individual is not a state certified water	A Lice	7/11/91
collector. State No.: <u>87 - 458</u>	Analyst	Date

Fredericktowne Labs, Inc. is a State Certified Water Quality Laboratory Maryland Cert. No. 116 Virginia Cert. No. 00141 W. Virginia Cert. No. 24-R

the state of the s									
Page of Date Jung 12,	1589	A STATE OF THE STA	Review						
· •	FIELD DATA SHEET								
٠.	•	HOWARD COUNTY WELL	YIELD TEST						
Well Permit No.	но - 88- С	691		•					
Location of pro	perty (road)	(viesow Spring)	D Block Plat	Sec.					
Subdivision	Nillow Arthan	Owne	E Willow Spp. C7D	PRAP.					
	,								
Depth of	well 185'	int (M.P.) above gr	ound 2,54						
Static w	ater level (S.W.	L.) below M.P.	20 84						
T Wigh rate	pumping reser	voir drawdown							
			Pumping rate 6/0 0	PM					
Total time	e 15 mm to	reach pumping water	level 22 ft.	below M.P.					
			recorded every 15 minu	•					
	WATER LEVEL	PUMPING RATE	FLOW METER READING	CALCULATED FLOW					
TIME (in 15 minute in-	below M.P.	time to fill \$"	(if used)	(gallons per					
tervals		gallon bucket		minute)					
9:00	22 ft	b Sec		10 GPM					
9:15	22 ft	6 Sec	 	10 4					
9:30	22 4	6 Sec		10					
9745	22 8+	6 See	 	10 GPm					
10:00	22 St	6 Sec		10 11					
10:15	22 11	b Sec		10 UPM					
10:30	122 ++	6 Sec		10 G-PM					
10:45	22 ft	6 Sec		10 cpm					
11:00	22 ft	6 Sec		10 GPm					
11:15	22	6 See	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10 GPm					
11:30	22	6 Sec	\(\frac{1}{2} \)	To orm					
11:45	22	6 5ec	. 10 c 10 c	10 GPM					
12:00	22	b Sec		10 GPM					
			1 / 1	<u> </u>					
				<u> </u>					
				<u> </u>					
,			1 - 1						
r		1	1 1	•					

HD-224 POPUC 48# Bags 12 cont Open 34%