PERMIT

MARYLAND STATE DEPARTMENT OF HEALTH

#### HOWARD COUNTY

BUREAU OF ENVIRONMENTAL HEALTH 461-9933

INDEXED

03-313247

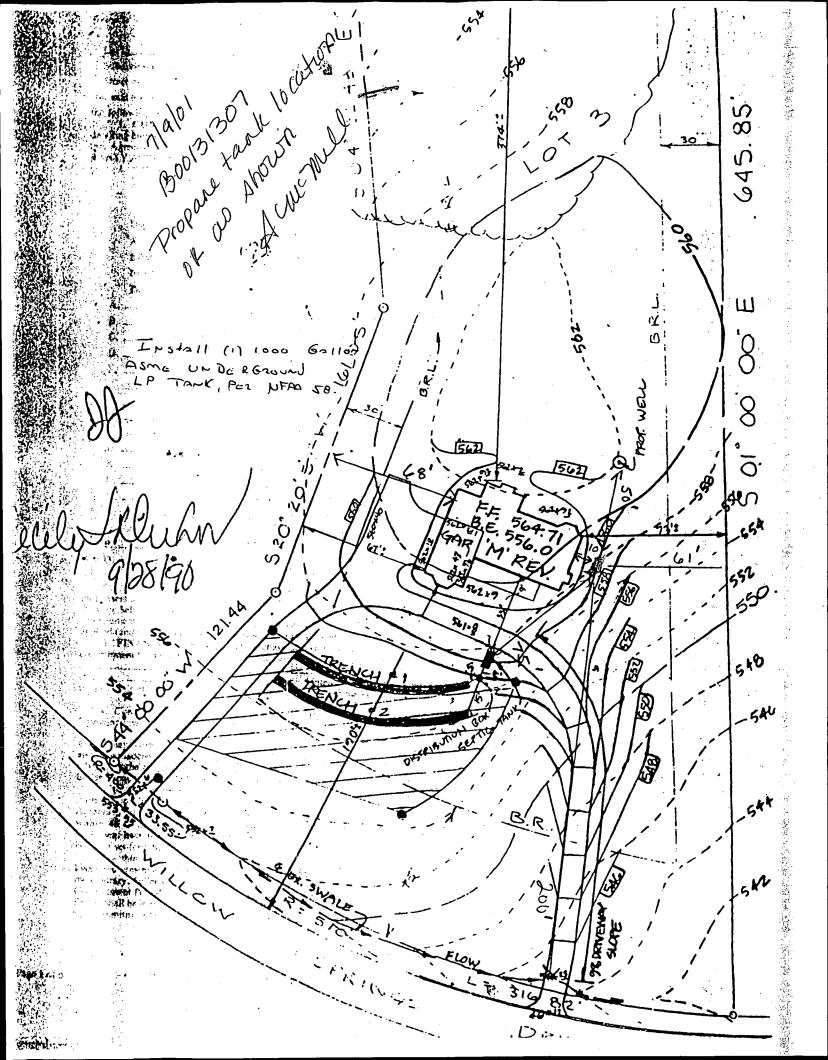
Walter W. King plumbing & Heating Contractors, Inc. IS PERMITTED TO INSTALL X ALTER
ADDRESS 5305 King's Court, Frederick, Maryland 21701 PHONE 662-6990
SUBDIVISION Willow Springs ROAD 1715 Willow Springs Drot 3
PROPERTY OWNER Willow Springs Limited Partnership
ADDRESS
IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.  GARBAGE GRINDER? YES X NO
SEPTIC TANK CAPACITY 2000 GALLONS NUMBER OF BEDROOMS 4
TRENCHES - 220 sq. ft. per bedroom with garbage disposal. Trench to be 3 feet wide
Inlet 3.5 feet below original grade. Bottom maximum depth 5 feet below original grade. Effective area begins at 3.5 feet below original grade.  1.5 feet of stone below distribution pipe.  LOCATION - Start the first trench 135 feet off the front lot line and 80 feet off the corner of the 120 feet lot line and 162 feet lot line along left side of 1 as seen when facing the lot from Willow Springs Drive. Run trenches on
contour toward the left and right side of lot.  NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. ΦΚ/Cω
PLANS APPROVED BY Sid Abel DATE 2/14/89
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
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 TRENCHIES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCHIES)
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 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 PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.
OTE DISTRIBUTION BOXES MUST HAVE BAFFLES

\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APROVAL ON THIS PERMIT

\*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

well 40-88-0408 HOUSE 226 302 SEPTIC TANK LEVEL DK (2000 GAL) CLEANOUTS ST. OF DISTRIBUTION BOX LEVEL OK BAFFLEIN DRYWELL INSIDE DIAMETER . EFFECTIVE DEPTH BELOW INLET ABSORBENT AREA \_\_\_\_\_\_ SO FT. ALL LYDEK COMPLETE + OK TO COVER MR

DATE SYSTEM APPROVED



## APPLICATION

PERCOLATION TESTING

P \_\_\_\_\_

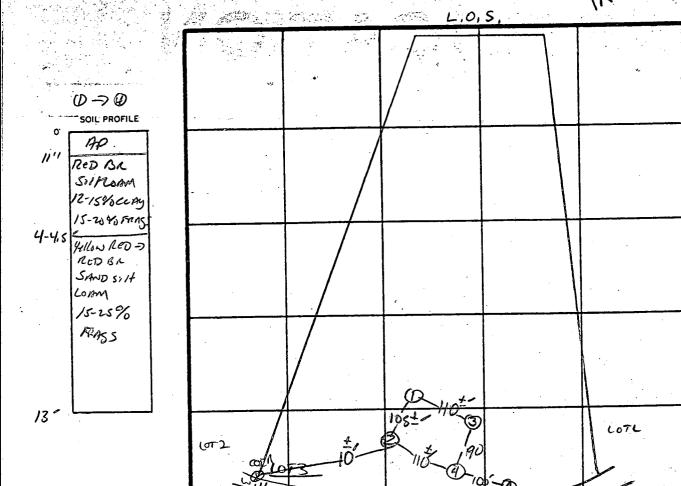
DISTRICT \_\_\_\_3

DATE 12-16- 1986

HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH P.O. BOX 476 ELLICOTT CITY. MARYLAND 21043 TELEPHONE: 461-9933

	•				
O: THE COUNTY HEALTH OFFICE	·			with the	•
ELLICOTT CITY, MARYLAND					
I HEREBY. APPLY FOR THE NE	CESSARY TEST IN ORDER TO	O CONSTRUCT (OR RECONST	RUCT) A SEWAGE DISPOSAL SY	STEM.	•
White	SPRINGS LIN	NITED PADTA	SD < HID		
ROPERTY OWNER WICCOW	WESLEY CHA	PEL ROAD	PHONE		22
ADDRESSMONKTO	MARYLAND	2111.1	PHONE	347-8:70	\$ <del>0</del>
ROSPECTIVE BUYER					
ADDRESS		<u> </u>	PHONE	·	
					* .
PROPERTY LOCATION:	Hishlands	. 4 \			
SUBDIVISION WILLOW	Highlands SPRINGS GOL	F COURSE	LOT NO	3	
OAD AND DESCRIPTIONN/S	He DTE	70 N AT	INF. CTOCK	DAAD	
			CIVO STOCK	KOND	
	7/5 Willow	Spainss Dr.			
TAX MAP 9 \$ 15 PARCE	i51 & 11				
		<del>`</del>			
IZE OF LOT	3.0 Ac.±		TYPE BLDG	S.F.D	
			(SII	NGLE FAMILY DWELLING	3 OR COMMERCIAL)
THE SYSTEM INSTALLED UNDER	THIS APPLICATION IS AC	CEPTABLE ONLY UNTIL	PUBLIC FACILITIES BECOME	AVAILABLE. I FULLY I	UNDERSTAND TH
			•		
FEE CONNECTED WITH THE FILI	NG OF THIS PERC TEST A	PPLICATION IS NON-REF	UNDABLE UNDER ANY CIRC	UMSTANCES. I ALSO A	GREE TO COMPLY
WITH ALL M.O.S.H.A. REQUIREM	ENTS IN TESTING THIS	LOT. B	Manual Co		
WITH ALL M.O.S.H.A. REQUIREM			ISIGNATURE OF AP	PLICANT)	
PPROVED BY Sol ale	ρ	FOR J	fundand fund	DATE 22	8-89
EJECTED BY		FOR	· · · · · · · · · · · · · · · · · · ·	DATE	<u></u>
IOLD PENDING FURTHER TESTS			•	DATE	
	111362 0	h	) , , ,		1 - 11 -
EASONS FOR REJECTION OR HOLDIN	16 <u>Y-15-87 R</u>	ne SATTS FACTORE	1-hold for subc	uvicion pla	d. Stul
					•
			SINO	PERMIT CION	PT

### THIS IS NOT A PERMIT



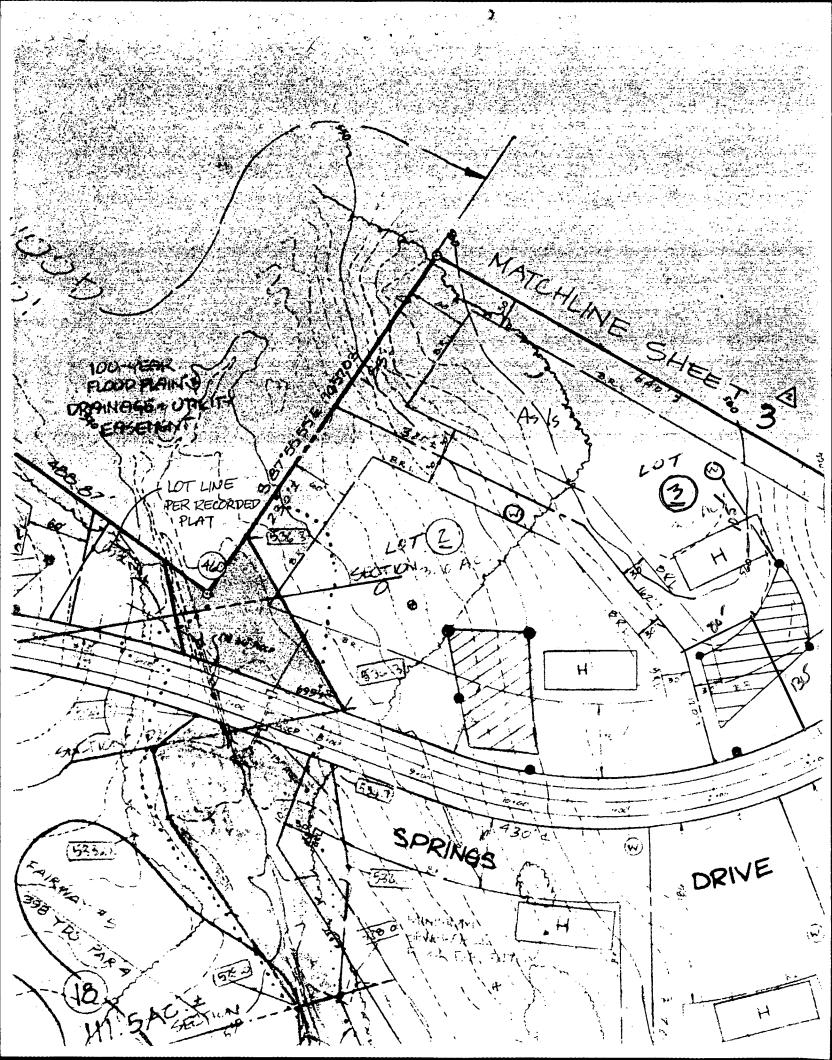
X PERC SMIN 180 \$1BA INLET 3.5° BUTTOM 5.5°

		INDICATE NORTH-		ROADWAY AS B	ASE-LINE.		
			UI70		T		
DATE	TEST NO.	DEPTH	START	PRE-WET START STOP		TEST - 1" DROP START STOP	
1		4-	11:09	11:17	1117	111:24	7 M
4/13/87	IM	8-	11:09	11:15	11:15	11:22	7 Mi
	IV	13-	UNIFORM	Soil Selve	y-		
	21		1		1		<b>_</b>
	35	40	WIFORM.	11:23 Suil below	11123 4- 14A1	11/27	4 M
:1	4.5	45-10,5	NIFORM SE 111,20 UNIFORM. 11,24 UNIFORM	11:28	11:28	11/35	7 min
							<u> </u>
41,3/87	A- C	A4 TO 7,5+					

REMARKS Itoles DIEF THEN fini	Shallow SysT	
TYPE OF SOIL CheSTER	· · · · · · · · · · · · · · · · · · ·	
TESTED BY S, Mbel	ALSO PRESENT	O-Ketterman)

EH- 12-1079

<del>(                                    </del>				······································
B 1 7920 SEQUENCE NO. (DP USE ONLY)		MARYLAND A		STATE PERMIT NUMBER
(THIS NUMBER IS TO BE PUNCHED	PERMIT TO		34	0-88-0408
IN COLS. 3-6 ON ALL CARDS)	please pri	nt or type		fill in this form completely
Date Received (APA)		B 3	LOCATIO	ON OF WELL
ON 131 87 OWNER INFORMA	ATION	HOWAN N 8 COUNTY		21
15 Last Name Owner	First Name 34	W1460W	14 16	HLANDS
16801 WestLEY	CHRD	23 SUBDIVISION	্ৰ	1
36 Street or RFD	55	SECTION 44 46	LOT 48	50
57 Town 70	State 72 Zip 76	Vestar 52 NEAREST TOWN	15 MD	514119
DRILLER INFORMATION	N anti-	MILES FROM TOWN (e	nter 0 if in tow	n) / M 1
Drilley Named	77 License No. 80	B 4		73 76 77 78
Firm Name	milling)	1 2 DIRECTION OF WELL FROM	Bed 120	
9120 Bruwe (hunch Ad.	AH Ding	TOWN (CIRCLE BOX)	1 "	NEAR WHAT ROAD 30 NORTH
Signature Mayne	1/24/85 Date			HICH SIDE OF ROAD LE APPROPRIATE BOX)  W 32 E
B 2 WELL INFORMATION	1	8-9		WEST SEAST SOUTH
1 2 APPROX. PUMPING RATE (GAL. PER MIN.)		W TOWN E		
AVERAGE DAILY QUANTITY NEEDED	12	S <sub>W</sub> S <sub>E</sub>		34 3 2 5 37 DISTANCE FROM ROAD
(GAL. PER DAY)	10 20	8-9 S 8-9		ENTER FT or MI
USE FOR WATER (CIPCLE APPRI				FILLED IN BY DRILLER PARTMENT APPROVAL
F FARMING (LIVESTOCK WATERING & A	OLD UNIT ONLY) AGRICULTURAL	HOWAND		A-38626
I IRRIGATION)		COUNTY NAME		COUNTY NO.
22 INDUSTRIAL, COMMERCIAL, STATE AI OTHER (REQUIRES APPROPRIATION F		STATE SIGNATURE		INSERT S
PUBLIC OR PRIVATE WATER COMPAN	IY.(REQUIRES: HEALTH DEPARTMENT	DATE ISSUED	Sil	ald 08-13-89
APPROVAL)	•		CO SIGNATURE	EXP. DATE
T TEST, OBSERVATION, MONITORING (NAPPROPRIATION PERMIT)	WAT REQUIRE	NORTH S 4 0	0 0 GRI	57 0 0 0 0 63
APPROXIMATE DEPTH OF WELL	T]===	SHOW MAJOR FEATU BOX & LOCATE WELL		4.60
AFFROAIWATE DEFINOR WELL 24	J FEET	WITH AN X SOURCES OF DRILLIN	IC WATER	no Insp-
APPROXIMATE DIAMETER OF WELL 6	NEAREST INCH	1. Vell	IN WATER	3(3(8)
METHOD OF DRILLING	circle one)	2.	-	SK.
BORED (or Augered) JETTED	Jetted & <u>DRIVEN</u>	3. WRITE THE BOX NUM	BER	
37	OTARY (Hydraulic Rotary)	FROM THE MAP HERE		
<u>CABLE</u> <u>REV</u> erse-ROTary	<u>DR</u> ive <u>-POINT</u>	E 809	3 -	
other		N 541	81	000
REPLACEMENT OR DEEPENE			OW SHOWIN	G LOCATION OF WELL IN
(CIRCLE APPROPRIATE BI	•	RELATION TO NEARB DISTANCE FROM WEL	Y TOWNS AN	D ROADS AND GIVE
THIS WELL WILL REPLACE A WELL TO		N S		or hoad Junction
ABANDONED AND SEALED  39 THIS WELL WILL REPLACE A WELL TO	HAT WILL BE USED	12		(A) the
S AS A STANDBY			•	(125)
D THIS WELL WILL DEEPEN AN EXISTIN	*	3	- "	HEALTH IN >
PERMIT NUMBER OF WELL TO BE REPLAC	SED OR DEEPENDED	3		and Assert Control of the Control of
Not to be filled in by driller (OEP L	JSE ONLY)	12		\$ 05 bly 186
APPROP. PERMIT NUMBER G	<del></del>	1 will	LOW SI	Molny WK,
54	63	F. W. S.		MENT LA SECTION OF THE PROPERTY OF THE PROPERT
FORCE A WAITE PERMIT NO. HU -	8 8 - 0 4 0 8 73 74 75 76 77 78 79	HOME		HOWARD
SPECIAL CONDITIONS	.,	:		



C 1 2272 SEQUENCE NO. (DENV 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 PRINT OR TYPE	COUNTY NUMBER A 38626
DATE Received DATE WELL COMPLETE	<del>(                                    </del>	PERMIT NO. FROM "PERMIT TO DRILL WELL"
8 13 13 S 9	22 1 2 ST 26 (TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
STREET OR RFD last name College	CONTRODO first name TOWN	The second of
SUBDIVISION Walley thehten		LOTE 3
WELL LOG Not required for driven wells	GROUTING RECORD yes no	C 3
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH,	(Circle Appropriate Box)  TYPE OF GROUTING MATERIAL	1 2 PUMPING TEST
THICKNESS AND IF WATER BEARING DESCRIPTION (Use FEET Check	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
additional sheets if needed) FROM TO if water bearing	NO. OF BAGS 6 NO. OF POUNDS 600	PUMPING RATE (gal. per min. 10 15 to nearest gal.)
Top Soil 0 2	GALLONS OF WATER  DEPTH OF GROUT SEAL (to nearest foot)  from ft. to ff.	METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface)
Top Soil 0 2 Shady 2 11	48 TOP 52 54 ΒΌΤΤΟΜ 58 (enter 0 if from surface)	BEFORE PUMPING
Shad Stone 11 15	casing types insert appropriate CASING RECORD STEEL CONCRETE	WHEN PUMPING 22 25
MKKA 15 20	appropriate code below PLASTIC OTHER	TYPE OF PUMP USED (for test)  A air  P piston  T turbine
SAND STONE 20 25 V	MAIN Nominal diameter Total depth CASING top (main) casing of main casing TYPE (nearest inch) (nearest foot)	C centrifugal R rotary Other (describe below)
MICKA 25 90		J jet Submersible
SAND STONE 90 95 125	60 61 63 64 66 70.  E OTHER CASING (if used)  A diameter depth (feet)	2000
111CKA 95 125	inch from to	PUMP INSTALLED  DRILLER WILL INSTALL PUMP YES NOTE
	A S L L L L L L L L L L L L L L L L L L	(CIRCLE) (YES OR NO) IF 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 appropriate code BRONZE HOLE	PLACE (A,C,J,P,R,S,T,O) IN BOX-SEE ABOVE:  CAPACITY:  PLACE (A,C,J,P,R,S,T,O) 29 29 29
	below PLASTIC OTHER	GALLONS PER MINUTE (to nearest gallon)  PUMP HORSE POWER
	DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)
	E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CASING HEIGHT (circle appropriate box and enter casing height)
	H       S       C       23       24       26       30       32       33       32       36	LAND SURFACE (nearest foot)
CIRCLE APPROPRIATE LETTER  A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	R 3	LOCATION OF WELL ON LOT
E ELECTRIC LOG OBTAINED	SLŎŢ SIZE 1	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR
P TEST WELL CONVERTED TO PRODUCTION WELL	DIAMETER (NEAREST OF SCREEN 56 60 INCH)	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 10.17.13 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE	from to	
ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.	IF WELL DRILLED WAS FLOWING WELL INSERT	Y 200'
DRILLERS IDENT. NO. 223	F IN BOX 68 68	1 Wall
Yath Mayer	OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)	i i i i i i i i i i i i i i i i i i i
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	T (E.R.O.S.) W Q	135
SITE SUPERVISOR (sign. of driller or journeyman	70 72 TELESCOPE LOG OTHER DATA CASING INDICATOR	nead
responsible for sitework if different from permittee)		
	COUNTY	

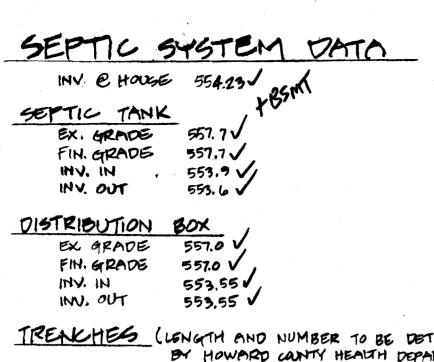
6/29/89 17

# 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

	New Installation X Replacement	,	Receipt # <u>44217</u> Date <u>511149</u>
	Name of Installer W.W.King F	Plog. & Htg. Contr Inc.	<b>Telephone</b> <u>1-301-662-6990</u>
e Nasana	License Number 2217 Certified Well Pump Installe	well Driller	. Registered Plumber <u>x</u>
it all	Name of Property Owner <u>Pul</u> Subdivision <u>Willow Springs</u> Site Address <u>1715 Willow Spr</u>	te Homes Corp.  Lot # 3	Telephone 1-301-921-8707
	Pump	Motor	Pitless Adapter
	1. Type	1. Horsepower $\frac{1}{2}$	1. Make <u>Martinson</u>
	a. Deep well jet		2. Model # BP-10X
	b. Shallow well jet		3. Depth 42" min
*	c. Submersible X	a. 110	60 max
	2. Make Goulds	b. 220 X	
	3. Model # <u>7EH05422</u>	-	
	4. Capacity GPM	1	
	5. Pump exceeds well capacit	y Yes No	
	6. If Yes, is low pressure of		
•	7. What methods are used to		
	vibrations? Torque arre	estors Cable guard	ls X Other
	1,50	CAO	
	Tank WELL	CAP Piping	Well data
	1. Capacity 80 2. Pressure relief STAMAR	1. Type plastic 160#	1. Depth 125 It.
	2. Pressure relief	2. Size	2. Yield 10 GPM
and a separation	valve? yes DAMAG	3. NSF and/or BUCA	2. Yield 10 GPM 3. Static water level ft. 4. Will water supply be disinfected by
	PAUBG TELL	nonth of ourselve	4 Will water cumply
S)	- PEDVIS	CTED line 42" min	he disinfected by
JZ.	ED 2 110 / 19979 CA	1111e 42 mill	installar? was
STIC	KEK PLU GOVE CAL	LIN WHEN COMPLET	be disinfected by installer? yes
	I understand that it is my		
LEFT	f understand that It is my	ation is ready for inspect	tion (otherwise this permit
ON WE	is null and void).	itton to rough tor inopes.	to the same of the
	is hull and volu).	v.	PERCON
	All information given above	is true to the best of my	knowledge.
	and the same of th		
	Sign	nature of Applicant: على المراء	alkerthe Stina
			Markowski was
•		Date: 5	-8-89 V
		and the state of	VI TO THE PARTY OF
	Note: A sticker indicating	approval/status of the i	nstallation will be placed

on the well casing at the time of the inspection.



TRENCHES (LENGTH AND NUMBER TO BE DETERMINED BY HOWARD COUNTY HEALTH DEPARTMENT) TRENCH #1 TRENCH #2

ex. grade FIN. GRADE INV. IN

556.5V 557.0V 557.0V 553.00 553.5V

HOTE: GRAVITY SEWER SERVEG TO BASEMENT FLOOR IS POSSIBLE J

revisions						
DATE	REVISION REGUESTED BY	REVISION MADE BY	REVISION			
2/24/89	PULTE HOMES	SHAMPBERGER 4 LANE	RELOCATE HOUSE & ADD DRIVEWAY			
2/20/89 PUTE		54L	9% DRIVEWAY SLOPE			
, magain	and and and an analysis of the second analysis of the second analysis of the second and an analysis of the second and analysis of the second and an analysis of the second and an analysi	<u>40 - 1 80 9794</u>				
	···		,			

LOT 3 544° 00 00 W, 121.44 绝 SITE PLAN AND RETURNED 3-13-89 BP 23864 S. Abel

HANABERGER & LANE

726 TOWN & COUNTRY BLYD. JITE 107 LLKOTT CITY, MD 21043 301) 461-9563

OWNER:

PULTE HOME CORPORATION

9050 GAITHER ROOD GAITHERENBURG, MARYLAND 20817

(301) 921-8709

WILLOW HIGHLANDS WILLOW SPRINGS GOLF COURS PLAT \* 7918

HEATHERWOOD

F147 44 01

3 ED ELECTION DISTRICT HOWARD COUNTY, M.D. SCALE : 1"=50" DATE :

Page of Date MANCh 11,1089

#### FIELD DATA SHEET HOWARD COUNTY WELL YIELD TEST

Subdivision <u>willow trishlands</u> Well Driller <u>Remoune</u>	Lot 3 Block Plat Sec. Owner Willow Sprix (77)	
Depth of well 125 Distance of measuring point (M.P.) Static water level (S.W.L.) below  High rate pumping reservoir drawd	above ground 2 M.P. 21 F	
Time pump started //:(5	Pumping rate 10 C/M	

TIME (in 15 minute in- tervals	WATER below	M.P.	PUMPING time to gallon	fill 蹇	FLOW METER READING (if used)		CALCULATED FLC (gallons per minute)	
11:30	25	H	6	Sec		/	10	GPM
11:45	25	H	6	Sec			10	GPM
12:00	25	,kor	6	Sec			10	GPM
12:15	25	Fo	6	See			10	Grun
12:30	2.5	RO	6	Sec			.10	GPM
12:45	25	fo	6	Sec		\	10	GANI
1:00	25	For	6	Sec		\	10	GPNI
1:15	25	ps	. 6	Sec		$\bigvee$	10	(PP.
1:30	25	K-	6	Sec		X	10	GPM
1:45	25	H	6	Sec		7	10	Sprin
2:100	25	b	6 =	COE.		<del>/                                    </del>	10	GPA
2115	25	F	6	Sec		/ \	10	CPIN
2:30	25	Ģ	6	Sec			10	Gen
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