approved 5-19-83 C Willson

5/18/83 Approved 5/19/83 around 2 P.M.

PERMIT

P 32484

A 27476

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH*

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
992-2330

05-391938

INDEX

ELLICOTT CITY

DISTRICT 5th

DATE 2/15/83

Pat Lendrim IS PERMITTED TO INSTALL X ALTER ____

ADDRESS 14010 Forsythe Road, Sykesville, Md. 21784 PHONE 442-2416

SUBDIVISION Kalmia Farms ROAD ~~15~~ 14711 Betula Way LOT 15, Sec. 2

PROPERTY OWNER ~~William and Rosemary Carroll~~ JOHN + ALLMONS McDERMOTT

ADDRESS 10062 Cotton Mill Lane, Columbia, Md. 21046 Phone: 730-0232

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 5

TRENCHES - 193 sq. ft. per bedroom. Minimum total sq. ft. in system is 965 sq. ft. Trench 2 ft. wide; inlet at 4 ft. below original grade and maximum depth 10 ft. below original grade. Effective area begins at 4 ft. below original grade. 6 ft. of stone below distribution box. NOTE: No trench to exceed 100 feet in length. If more than one trench used, a distribution box is required. Trenches to be installed on level ground. Start the first trench 145 feet from the front lot line and 136 ft. from the right side line as seen when facing the lot from Betula Way. Continue to dig the trench on level ground running towards the rear of the lot. Place the second trench parallel to and 12 feet away from the first trench. Two 80 foot long ~~xxxxx~~ trenches needed. Call for inspection of trench before placing gravel

BUILDING PERMIT SIGNED AND RETURNED

BLDG. PERMIT SIGNED AND RETURNED 10/25/2000

5-30-03 B001 42088 - FAMILY ROOM

B00127146 FINISH BASEMENT

PLANS APPROVED BY Frank A. Skinner DATE 2/15/83

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: IF TRENCH IS USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH.

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 THREE YEARS.

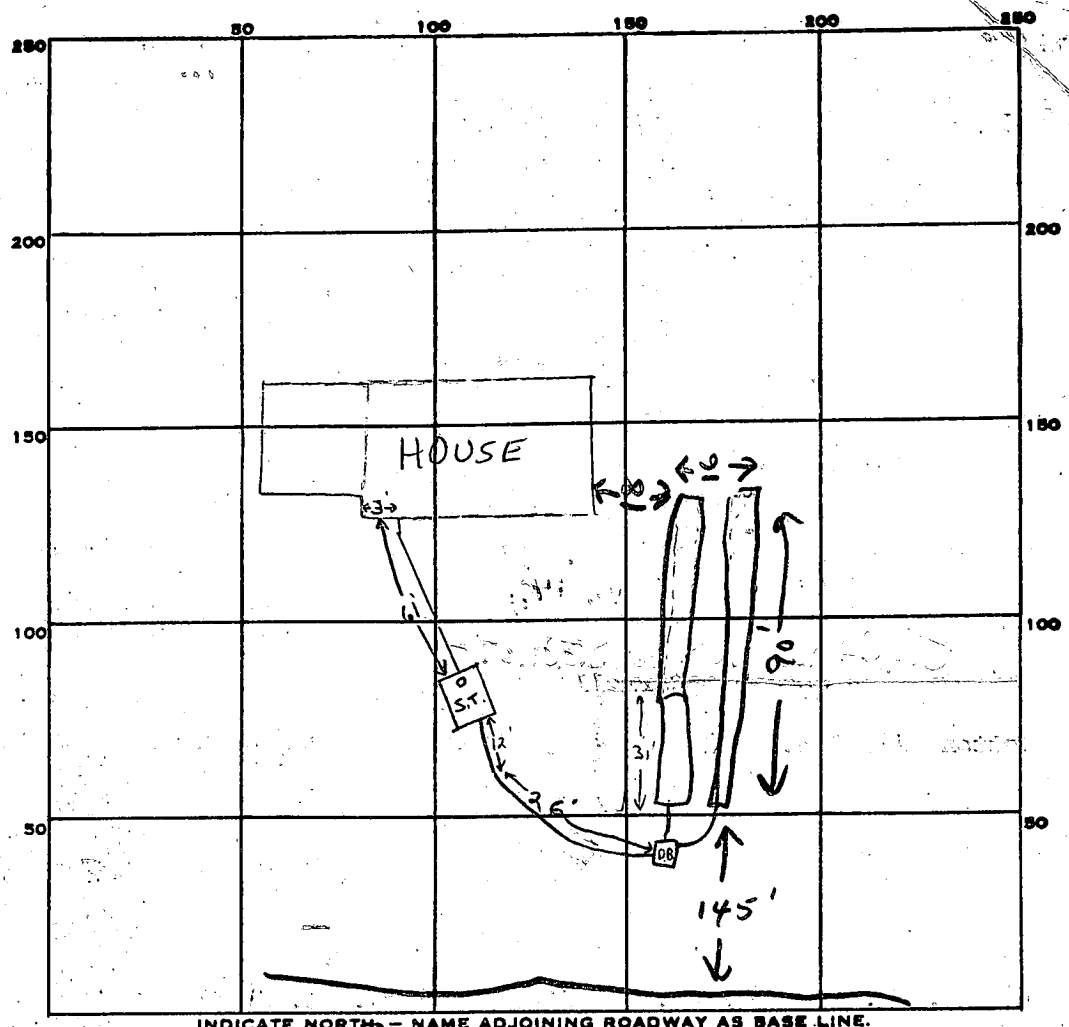
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA, OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

A 27476

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

***CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.**

EH - 2-1082



INDICATE NORTH — NAME ADJOINING ROADWAY AS BASE LINE.
Betula Way

PERMIT CARD _____

SEPTIC TANK, LEVEL ✓ _____ CLEANOUTS S.T. ✓ w/cap | trench n.a.

DISTRIBUTION BOX, LEVEL ✓ _____

TILE FIELD, DEPTH ~10 FT. TRENCH WIDTH 2 → 6 FT.

GRAVEL DEPTH 6 FT ~~IN.~~ TOTAL LENGTH 90 each FT.

NUMBER OF TRENCHES 2 ONE SIDEWALL ~~TOTAL BOTTOM~~ AREA 180x6 = 1080

SEEPAGE PITS, INSIDE DIAMETER — FT. DEPTH BELOW INLET — FT.

ABSORBENT AREA 1080 SQ. FT.

BUILDING PERMIT SIGNED AND RETURNED

REMARKS 5/18/83 Trench #1 caving in ok to grade trench as it is dug F.S. OK to cover work from house to d. box F.S.

5/19/83 TRENCHES OK. COVER ALL WORK. CW

DATE SYSTEM APPROVED 5-19-83 INSPECTOR C Williams

APPLICATION

A _____

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P _____

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
P.O. BOX 476 ELLICOTT, MARYLAND 21043
TELEPHONE: 992-2330

DISTRICT 1

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

Use 3/80

PROPERTY OWNER William & Rosemary Carroll

ADDRESS 10062 Cotton Mill Lane Columbia, Md 21046 PHONE _____

(#15 9/13/79 Plat)

PROPERTY LOCATION:

SUBDIVISION KALMIA FARMS LOT NO. 15 SECT 2

ROAD AND DESCRIPTION 15 Betula Way

SIZE OF LOT _____ TYPE BLDG. _____

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES.

SIGNATURE OF APPLICANT _____

APPROVED BY Frank Shemer FOR drywell & trench DATE 11/16/82

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

BLDG. PERMIT SIGNED
~~AND RETURNED 12/28/53~~
Sual #53055

THIS IS NOT A PERMIT

15 SEC. 2

SOIL PROFILE

0'

SEE

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Max Depth 4
Av Time 8 min
3/21/80 RH

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME	HOLE ELEVATION
11/29/78	1S	3	215	219	219	225	6	LOWEST
11/29/78	1D	12	215	219	219	225	6	
	2S	4½	223	230	230	239	9	NEXT LOWEST
	2D	14	223	231	230	239	9	
	3D	14	227	236	236	246	10	HIGHEST
	3S	5	228	231	231	236	5	USE FOR DW
11/29/78	4V	12	TOP BOT	2FT 10FT	CLAY SAND			NEXT HIGH

REMARKS NOTE THIS LOT WAS TESTED BEFORE POSSIBLY UNDER A DIFFERENT NUMBER AND FAILED (WATER) RH CANNOT FIND APPLICATION FOR OLD TEST

TYPE OF SOIL

TESTED BY RH

ALSO PRESENT DEVRA & DENNY

Field sheet

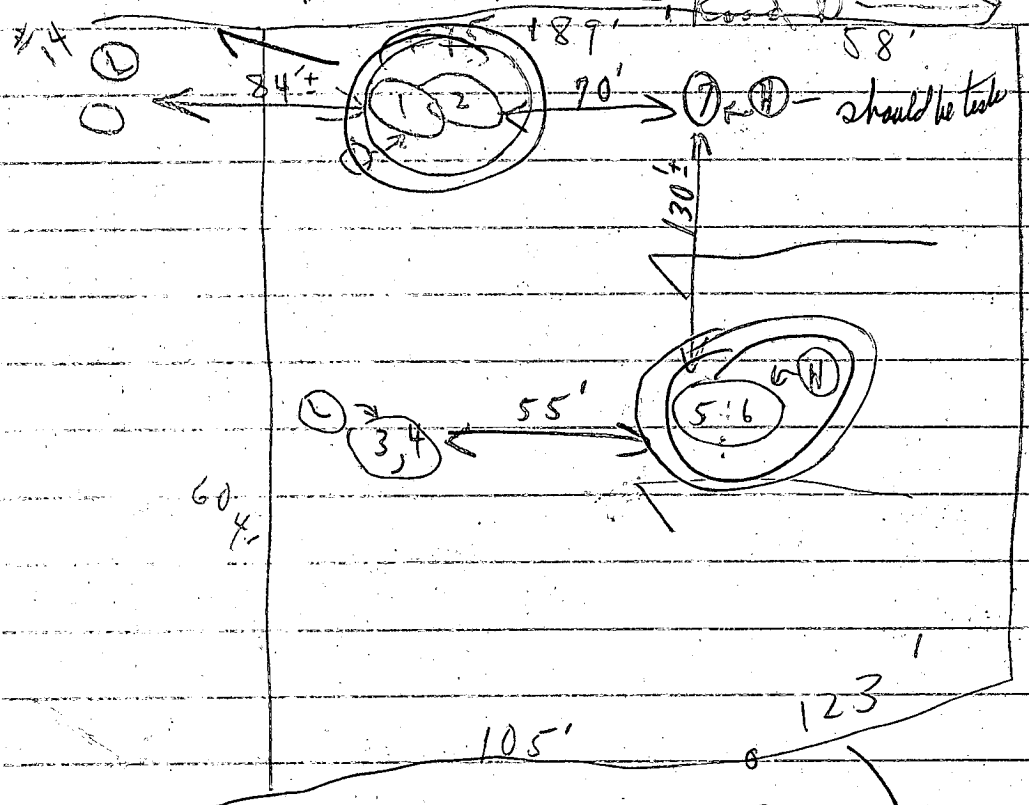
Kalmia Farms

tests in May

#15 Sec 2

5/10/78

Soil Profile Below	# of hole	Depth	1st	2nd	Final	Total	1 hole 5/10/78
clay loam	1 (L) 5/10	3½	3:18	3:20	3:24	4 m	
	2	12'	3:17	3:37	3: 20 m		Little perc ½± Raise shelf possibly
	3 5/11/78	6'	10:32	10:35	10:40	5 m	5/11/78
	4	12'	10:33	10:39	10:56	17 m	A.R.
	5	4'	10:29	10:34	10:45	11 m	
Smoke & mud to trees	(6) 5/11/78	11½	Water:	:	:		Hold possibly raise shelf
	7	11½					



4 of Butler men 5/11/78 5/10/78

Dug per shake

Hold - less than 10,000 gpd.

Tested in open

C.B.

VOID

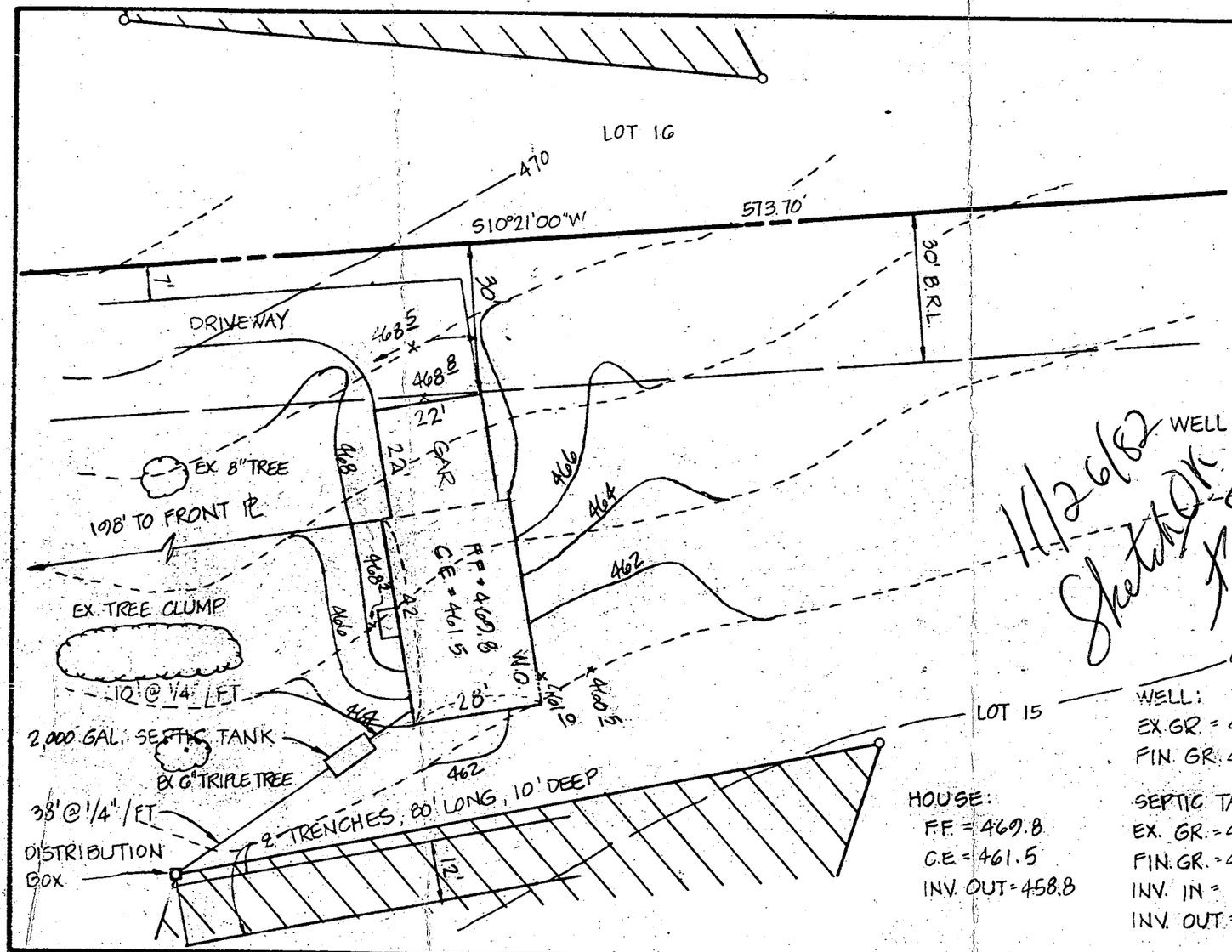
↓

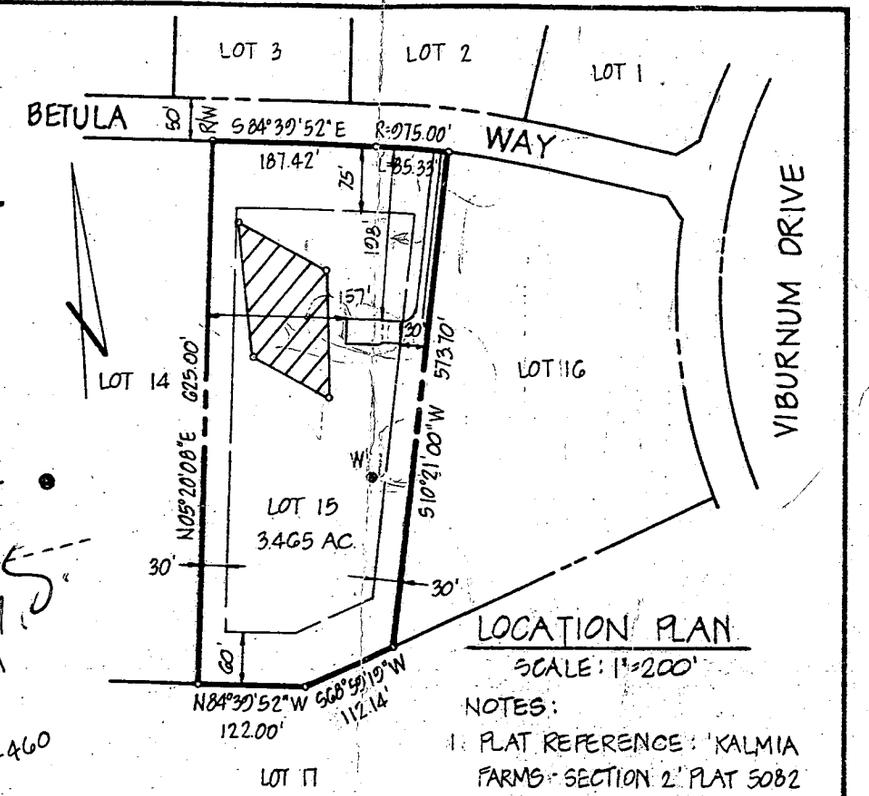
← See R.H. tests

Discussed lots #15 & 16

1 Water Hole | 1st Hole

Referred - Mr. Butler to Mr. Rush & Hold all lots for supervisor & Mr. Rush





LOCATION PLAN

SCALE: 1"=200'

NOTES:

1. PLAT REFERENCE: 'KALMIA FARMS - SECTION 2' PLAT 5082
2. CONTRACTOR TO SET GRADES IN FIELD.

TOPOGRAPHY HEREON WAS FIELD RUN BY BOENDER ASSOC.

WELL:
EX. GR. = 462.5
FIN. GR. 462.5

HOUSE:
F.F. = 469.8
C.E. = 461.5
INV. OUT = 458.8

SEPTIC TANK:
EX. GR. = 462.5
FIN. GR. = 463.0
INV. IN = 458.50
INV. OUT = 458.20

DISTRIBUTION BOX
EX. GR. = 461.5
FIN. GR. 461.5
INV. IN = 457.5

STATE OF MARYLAND
LARRY LEE YEAGER
LIC. NO. 10575
PROFESSIONAL ENGINEER

Larry Yeager P.E.

TITLE	GRADING STUDY	DATE: NOV., 1982	
PROJECT	LOT 15 - KALMIA FARMS - SECT. 2	SCALE: 1" = 30'	
LOCATION	5TH ELECTION DISTRICT HOWARD CO., MD.	JOB NO.: 82171	DRAWN BY: J.J.B.

boender associates

SUITE 102-107 TOWN & COUNTRY PROFESSIONAL BUILDING
ELLICOTT CITY, MARYLAND 21043
301-465-7777

engineers
surveyors
planners

Rosemary + Bill Carroll
10062 Cotton Mill Lane
Columbia, Md
~~21046~~

730-0232

EMERGENCY/TEMP. NO. IF ANY

B 4288 SEQUENCE NO. (OEP USE ONLY)

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND
PERMIT TO DRILL WELL

please print or type

OEP PERMIT NUMBER HO-73-4333

fill in this form completely

Date Received 12/7/82 1:30 p.m. 112682 (OEP Use Only)

OWNER INFORMATION

CARROLL ROSEMARY-BILL
Last Name 15 Owner 34 Name

10062 CATTON MILL LA.
36 Street or RFD 55

COLUMBIA MD 21046
Town 57 State 76 Zip

LOCATION OF WELL

COUNTY Howard 8 21

SUBDIVISION KALMIA FARMS 23 42

SECTION 2 44 46 LOT 15 48 50

NEAREST TOWN DAYTON 52 71

MILES FROM TOWN (enter 0 if in town) 2 73 76 77 78 M I

DRILLER INFORMATION

B 1 Continued

Ralph Mayne 273
Driller's Name 77 License No. 80

Ralph Mayne Well Drilling
Firm Name

Rt. 3 Box 5120 Mt. Airy Md.
Address

10/24/82
Signature Date

WELL INFORMATION

B 2

APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

(D) HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

[F] FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

22 [I] INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)

[P] PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)

[T] TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

APPROXIMATE DEPTH OF WELL 150 24 28 FEET

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (OR AUGERED) JETTED JETTED & DRIVEN

30-37 (AIR ROTARY) AIR PERCUSSION ROTARY (HYDRAULIC ROTARY)

CABLE REVERSE ROTARY DRIVE POINT

other

REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)

(N) THIS WELL WILL NOT REPLACE AN EXISTING WELL

[Y] THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39 [S] THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY

[D] THIS WELL WILL DEEPEN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 52

Not to be filled in by driller (OEP USE ONLY)

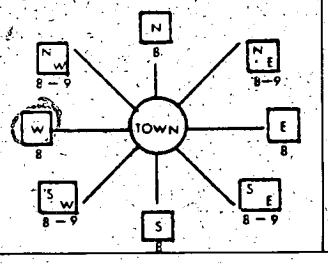
APPROP. PERMIT NUMBER GAP 54 63

FORCE [E S] 64 68 WRITE INITIALS IN BOX

PERMIT No. HO-73-4333 70 71 72 73 74 75 76 77 78 79

B 3

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



BETULA WAY
11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH N
W 32 E
WEST EAST
S
SOUTH

380 FT
34 DISTANCE FROM ROAD 37
(CIRCLE APPROPRIATE BOX) M I 38 39

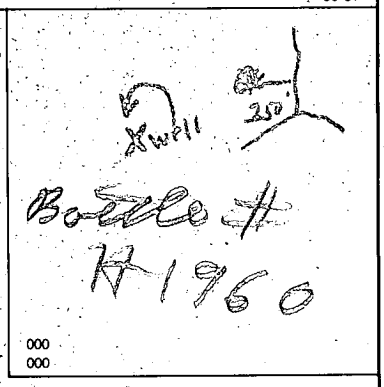
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

1. well
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 3 9 0 3
N 5 0 0 6



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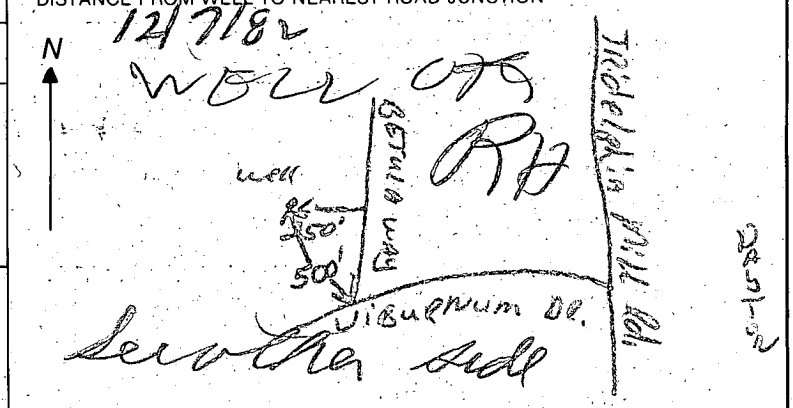
DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



B 4

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

HOWARD COUNTY NAME

AW32332 COUNTY NO.

OEP SIGNATURE

STATE HEALTH CIRCLE BOX [S] 41

DATE ISSUED 112682 43 48

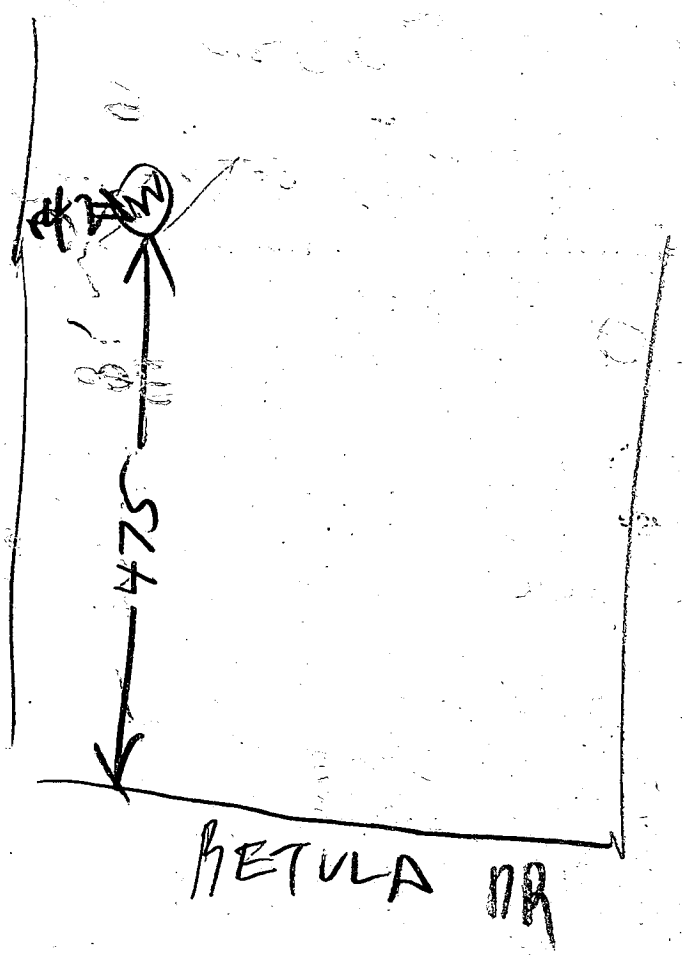
CO-SIGNATURE

NORTH GRID 506 000 50 55 EAST GRID 0793 000 57 63

EXPIRES 052683

B 5 SPECIAL CONDITIONS 8—63

HEALTH



12/7/82

1. LOCATION OK
2. 21 FT PLASTIC CASING WITH 2½ FT OUT OF GROUND
3. 17½ FT OPEN HOLE MEASURED WITH STRING
4. 5 BAGS

R HODGES

WATER SAMPLE & YIELD TOMAY ALSO

12/7/82 - Pump test to begin at 11:30 A.M. (3 hrs.)

Issue of
Date 12/7/82

Review

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 73-4333
Location of property (road)
Subdivision KALMIA FARMS Lot 13 Block Plat Sec.
Well Driller RALPH MAYNE Owner ROSEMARY & BILL CARROLL

Depth of well 200
Distance of measuring point (M.P.) above ground 2
Static water level (S.W.L.) below M.P. 27
SAMPLE TAKEN 130 BOTTLE # 1+9160

I. High rate pumping -- reservoir drawdown

Time pump started 1015 Pumping rate 6
Total time 15 to reach pumping water level 37 ft. below M.P.

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

TIME (in 15 minute intervals	WATER LEVEL below M.P.	PUMPING RATE time to fill ~~5~~ 1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
130	37	12 SEC		5
		5		

C 1 4218 — SEQUENCE NO. (OEP USE ONLY)
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE PRINT OR TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER: A W 32332

Date Received (OEP use only)

DATE WELL COMPLETED: 120782

Depth of Well: 200 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL": H0-73-4333

OWNER: Carroll (last name) Rosemary & Bill (first name)

STREET OR RFD: Betula Way TOWN: Dayton

SUBDIVISION: Kalmia Farms SECTION: 2 LOT: 15

WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	Check if water bearing
Top Soil	0	2	
Brown Shale	2	11	
Brown Slate	11	30	✓
Blue Slate	30	50	
Brown Slate	50	60	✓
Blue Slate	60	200	

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes (Y) no (N)

TYPE OF GROUTING MATERIAL

CEMENT (CM) BENTONITE CLAY (BC)

NO. OF BAGS 5 NO. OF POUNDS 500

GALLONS OF WATER 20

DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 18 ft. (enter 0 if from surface)

CASING RECORD
casing types (insert appropriate code below): (ST) STEEL (CO) CONCRETE (PL) PLASTIC (OT) OTHER

MAIN CASING TYPE	Nominal diameter top(main) casing (nearest inch)	Total depth of main casing (nearest foot)
PL	6	21

EACH CASING — OTHER CASING (if used)

diameter inch	depth (feet) from	to

SCREEN RECORD
screen type or open hole (insert appropriate code below): (ST) STEEL (BR) BRASS, BRONZE (HO) OPEN HOLE (PL) PLASTIC (OT) OTHER

C 2 (seq. no.)

EACH SCREEN		DEPTH (nearest ft.)	
1	HO	18	200
2			
3			

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (NEAREST INCH)

GRAVEL PACK from ____ to ____

IF WELL DRILLED WAS FLOWING WELL CIRCLE BOX (F)

C 3 (seq. no.)

PUMPING TEST
HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min. to nearest gal.) 5

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 27

WHEN PUMPING 200

TYPE OF PUMP USED (for test)

(A) air (P) piston (T) turbine (C) centrifugal (R) rotary (O) other (describe below) (J) jet (S) submersible

PUMP INSTALLED
DRILLER WILL INSTALL PUMP (CIRCLE APPROPRIATE BOX) YES (Y) NO (N)

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE

TYPE OF PUMP (WRITE APPROPRIATE LETTER IN BOX - SEE ABOVE: (A, C, J, P, R, S, T, O)

CAPACITY: GALLONS PER MINUTE (to nearest gallon)

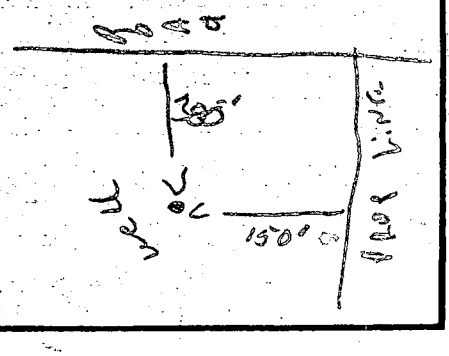
PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height) (+) above (−) below LAND SURFACE 1½ (nearest foot)

LOCATION OF WELL ON LOT
SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

N



CIRCLE APPROPRIATE BOX
(A) A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
(E) ELECTRIC LOG OBTAINED
(P) TEST WELL CONVERTED TO PRODUCTION 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 ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS IDENT. NO. 273

Ralph Mayne

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

Ralph E. Mayne

SITE SUPERVISOR (sign of driller or journeyman responsible for sitework if different from permittee)

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

TELESCOPE CASING — LOG INDICATOR — OTHER DATA

HEALTH

Page ____ of ____
Date 12/07/82

Review 1/10/83 OK F.S.

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 73-4333
Location of property (road) Betulaway
Subdivision Kalinin Farms Lot 15 Block - Plat — Sec. 2
Well Driller " Owner Rosemary + Bill Carroll

Depth of well 200 ft
Distance of measuring point (M.P.) above ground 2 ft
Static water level (S.W.L.) below M.P. 27 ft

I. High rate pumping -- reservoir drawdown

Time pump started 10:15 Pumping rate 9 G.P.M.
Total time 15 min to reach pumping water level 37 ft. below M.P.

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

TIME (in 15 minute intervals	WATER LEVEL below M.P.	PUMPING RATE time to fill 1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
10:30	37 ft	12 sec		5 G.P.M.
10:45	37 ft	12 sec		5 G.P.M
11:00	37 ft	12 sec		5 G.P.M.
11:15	37 ft	12 sec		5 G.P.M.
11:30	37 ft	12 sec		5 G.P.M.
11:45	37 ft	12 sec		5 G.P.M.
12:00	37 ft	12 sec		5 G.P.M.
12:15	37 ft	12 sec		5 G.P.M.
12:30	37 ft	12 sec		5 G.P.M.
12:45	37 ft	12 sec		5 G.P.M.
1:00	37 ft	12 sec		5 G.P.M.
1:15	37 ft	12 sec		5 G.P.M.
1:30	37 ft	12 sec		5 G.P.M.

301-854-0223

1148

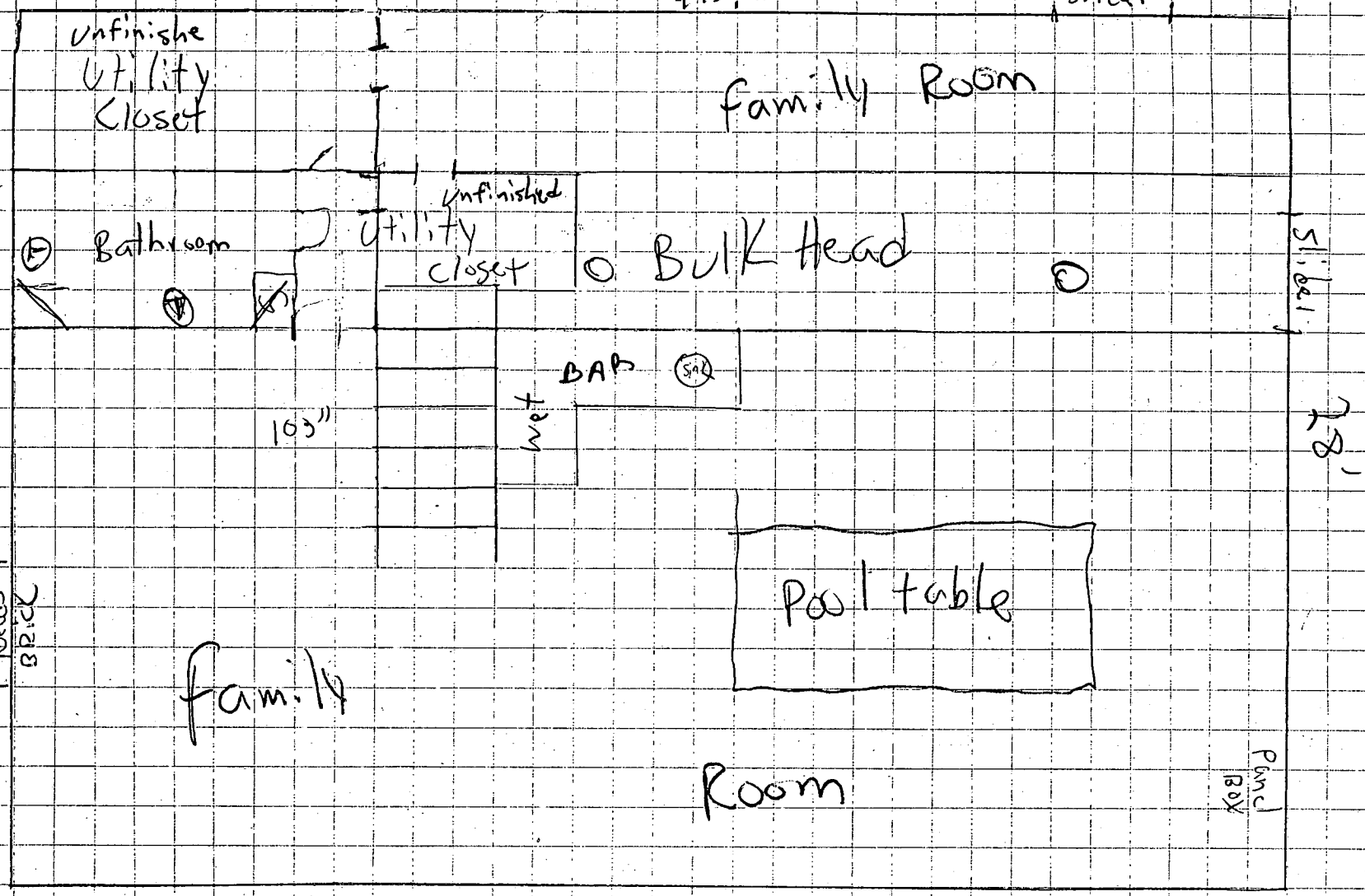
200 AMP

40'

$17,220.00

$15,720.00

FRAMING
Electric
Insulation
Drywall
Trim
Paint
Drop Ceiling
Plumbing
Carpet ✓



B0012746

MRS.
Almond MC Dermott

14711 Betula Way
DAYTON MD 21036

Deposit 5,240.00
When Drywall Hung 5,240.00
Remainder Upon Completion 5,240.00

to be extended into new
nted with a split system
manufactured by Sanyo to
n and Breakfast Room areas.

ve new and modified areas.
conditioned spaces.

as manufactured by Moen.

B00142088

5/30/03 Proposed addition OK

SO

1:60