

Stakeout traps by
9/23/97
10/28/97 10:00 - preconst Insp
with Tank Insp
WPI 10/29/97 spent trench 10:00

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 59035

A 58001

DISTRICT 11-1

DATE 10/23/97

DATE SYSTEM APPROVED 11/7/97

INSPECTOR [Signature]

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXX-XXXX~~ 313-2640

293068
INDEXED

South Carroll Backhoe, Inc.

IS PERMITTED TO INSTALL ☒ ALTER ☐

ADDRESS 4410 Salem Bottom Road Westminster, Maryland 21157 PHONE (410) 875-4197

SUBDIVISION Peterson Property Parcel: 167
LOT Tax Map: 9 ROAD 1401 Underwood Road

PROPERTY OWNER John and Theresa Witkowski

ADDRESS _____

Low Pressure Dosing System

Average Percolation Rate Design: 60 mpi

Soil Loading Rate = 0.4 gpd/sq.ft

Number of Bedrooms: 3

Square Feet Per Bedroom: 380

Total Linear Feet Of Trench: 380

Linear Feet Of Trench Per Bedroom: 127

Septic Tank Capacity: 1500 Gallon Top Seamed Compartmented Tank

PUMPED SYSTEM:

Install: 1500 Gallon Top Seamed Pump Chamber.

NOTE: - Septic pump detail to be provided by installer prior to issuance of septic permit.

- Pump Performance test is necessary prior to Health Department approval of pumped septic system.

See Low Pressure Dosing Design Plans by S/E Engineering, Inc. and approved Jun 12, 1997.

TRENCH DIMENSIONS: Trench to be 3 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 5 feet below original grade. Effective area begins at 3 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION: See Detailed Low Pressure Dosing Design Plan For Location Of System.

ADDITIONAL NOTES: See Detailed Low Pressure Dosing Design Plan and Signed Agreement and Easement. Pump Design Dosing 157 Gal. @ 65 gpm @ 7.6' TDH.

Pump Specified Goulds WE 0311L (or Equivalent)

Optional - One to several observation pipes (not shown in plans) may be located to bottom of gravel in trench system to monitor functioning of system at owner's discretion.

OLDG. PERMIT SIGNED

AND RETURNED 11-6-97

Serial # BP 00187836
Interior alterations

on file

Make Reinstallation of septic system since New Garage House site will impact limited septic area. 9/12/97 Replied by Stakeout Traps 9/29/97

APPROVED BY: [Signature]

DATE: 6/18/97

58001

C11966SEQUENCE NO. (OEP USE ONLY)

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 NUMBERA34251

DATE Received

DATE WELL COMPLETED11/1/87

Depth of Well
229926
(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
HC-81-2360

OWNER
STREET OR RFDlast nameHILLIARDfirst nameELAINETOWN
SUBDIVISIONMAP 9 Q8 P.167SECTIONLOT

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	TO
Top Soil	0	2
Brown Shale	2	40
Brown Slate	40	45
Blue Slate	45	60
Brown Slate	60	65
Blue Slate	65	90

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)
TYPE OF GROUTING MATERIAL
CEMENTCMBENTONITE CLAYBC
NO. OF BAGS12NO. OF POUNDS1200
GALLONS OF WATER22
DEPTH OF GROUT SEAL (to nearest foot)
from9ft. to4.5ft.
(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below
STEELCONCRETE
PLASTICOTHER
MAIN Casing TYPEPL
Nominal diameter top (main) casing (nearest inch)6
Total depth of main casing (nearest foot)59

OTHER CASING (if used)
EACH CASING diameter inch depth (feet) from to

SCREEN RECORD

screen type or open hole insert appropriate code below
STEELBRASSBRONZEOPEN HOLE
PLASTICOTHER
DEPTH (nearest ft.)
HOLE48
SCREEN190

SLOT SIZE 1 2 3
DIAMETER OF SCREEN 56 60 (NEAREST INCH)

C3

PUMPING TEST

HOURS PUMPED (nearest hour)3

PUMPING RATE (gal. per min. to nearest gal.)9

METHOD USED TO MEASURE PUMPING RATEBucket

WATER LEVEL (distance from land surface) BEFORE PUMPING16

WHEN PUMPING14

TYPE OF PUMP USED (for test)
AairPpistonTturbine
CcentrifugalRrotaryOother (describe below)
JjetSsubmersible

PUMP INSTALLED

DRILLER WILL INSTALL PUMP YESNO

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

TYPE OF PUMP INSTALLED
PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:
CAPACITY: GALLONS PER MINUTE (to nearest gallon)3135
PUMP HORSE POWER3741
PUMP COLUMN LENGTH (nearest ft.)4347
CASING HEIGHT (circle appropriate box and enter casing height)
+above- below
LAND SURFACE2 (nearest foot)

CIRCLE APPROPRIATE LETTER
A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
E ELECTRIC LOG OBTAINED
P TEST WELL CONVERTED TO PRODUCTION WELL

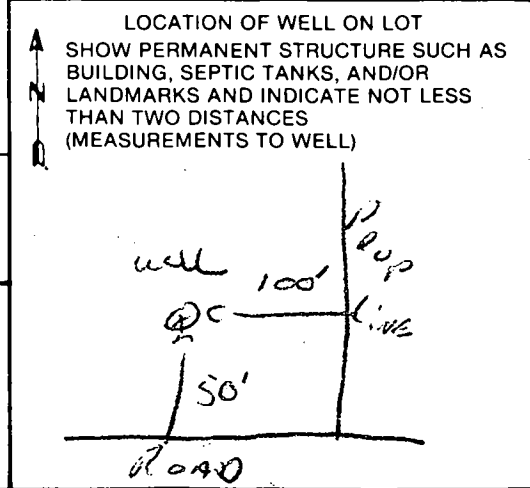
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 10.17.13 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

DRILLERS IDENT. NO. 223
DRILLERS SIGNATURE
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

C2

GRAVEL PACK
IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

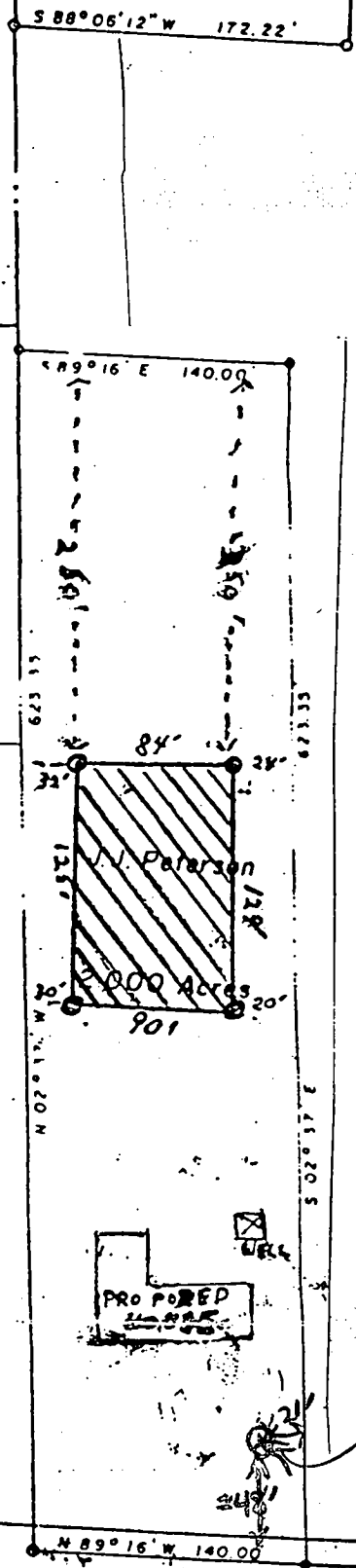
OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.)
WQ
TELESCOPE CASING
LOG INDICATOR
OTHER DATA



<div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">B 7</div> <div style="font-size: 24pt; font-weight: bold;">0732</div> </div> <div style="margin-top: 5px;"> <small>SEQUENCE NO. (OEP USE ONLY)</small> </div> </div> <div style="width:55%; text-align: center;"> <div style="font-weight: bold; font-size: 12pt;">STATE OF MARYLAND</div> <div style="font-weight: bold; font-size: 14pt;">PERMIT TO DRILL WELL</div> <div style="font-size: 10pt;">please print or type</div> </div> <div style="width:45%; text-align: right;"> <div style="font-size: 10pt;">OEP PERMIT NUMBER</div> <div style="border: 1px solid black; padding: 2px; font-weight: bold; font-size: 18pt;">40-81-2360</div> <div style="font-size: 8pt;">fill in this form completely</div> </div> </div>	<div style="display: flex;"> <div style="width:45%;"> <div style="margin-bottom: 5px;">Date Received</div> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">093087</div> <div style="margin-top: 5px;">OWNER INFORMATION</div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">HILLIARD</div> <div style="font-size: 8pt;">Last Name</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">ELAINE</div> <div style="font-size: 8pt;">First Name</div> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">16370</div> <div style="font-size: 8pt;">Street or RFD</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">TUSCANY</div> <div style="font-size: 8pt;">Town</div> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">A14104</div> <div style="font-size: 8pt;">City</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">MD21043</div> <div style="font-size: 8pt;">Zip</div> </div> </div> </div> <div style="width:55%;"> <div style="margin-bottom: 5px;">LOCATION OF WELL</div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">HOWARD</div> <div style="font-size: 8pt;">COUNTY</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">2623</div> <div style="font-size: 8pt;">SUBDIVISION</div> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">A449</div> <div style="font-size: 8pt;">SECTION</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">TM 9</div> <div style="font-size: 8pt;">LOT</div> </div> </div> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-top: 5px;">SYRESVILLE</div> <div style="font-size: 8pt; margin-top: 5px;">NEAREST TOWN</div> <div style="margin-top: 5px;">MILES FROM TOWN (enter 0 if in town)</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">2</div> <div style="margin-right: 5px;">MI</div> </div> </div> </div>
<div style="margin-bottom: 5px;">DRILLER INFORMATION</div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">RALPH MAYNE</div> <div style="font-size: 8pt;">Driller's Name</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">273</div> <div style="font-size: 8pt;">77 License No. 80</div> </div> </div> <div style="margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">RALPH MAYNE well drilling</div> <div style="font-size: 8pt;">Firm Name</div> </div> <div style="margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">9120 Brown Church Rd. Mt. Airy</div> <div style="font-size: 8pt;">Address</div> </div> <div style="margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">Ralph Mayne</div> <div style="font-size: 8pt;">Signature</div> </div> <div style="margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold;">5/28/87</div> <div style="font-size: 8pt;">Date</div> </div>	<div style="margin-bottom: 5px;">B 4</div> <div style="margin-bottom: 5px;">DIRECTION OF WELL FROM TOWN (CIRCLE BOX)</div> <div style="text-align: center;"> </div> <div style="margin-top: 5px;">NEAR WHAT ROAD</div> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-top: 5px;">LINCOLN RD.</div> <div style="margin-top: 5px;">ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)</div> <div style="text-align: center;"> </div> <div style="margin-top: 5px;">DISTANCE FROM ROAD</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">34</div> <div style="margin-right: 5px;">FT or MI</div> </div>
<div style="margin-bottom: 5px;">WELL INFORMATION</div> <div style="margin-bottom: 5px;">APPROX. PUMPING RATE (GAL. PER MIN.)</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">5</div> </div> <div style="margin-bottom: 5px;">AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">500</div> </div> <div style="margin-bottom: 5px;">USE FOR WATER (CIRCLE APPROPRIATE BOX)</div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">D</div> <div style="font-size: 8pt;">HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">F</div> <div style="font-size: 8pt;">FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)</div> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">I</div> <div style="font-size: 8pt;">INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">P</div> <div style="font-size: 8pt;">PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)</div> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">T</div> <div style="font-size: 8pt;">TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)</div> </div> </div>	<div style="margin-bottom: 5px;">NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL</div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">HOWARD</div> <div style="font-size: 8pt;">COUNTY NAME</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">134251</div> <div style="font-size: 8pt;">COUNTY NO.</div> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">102187</div> <div style="font-size: 8pt;">DATE ISSUED</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">B. N. Wilson</div> <div style="font-size: 8pt;">CO SIGNATURE</div> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">546000</div> <div style="font-size: 8pt;">NORTH GRID</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">0804000</div> <div style="font-size: 8pt;">EAST GRID</div> </div> </div>
<div style="margin-bottom: 5px;">APPROXIMATE DEPTH OF WELL</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">150</div> <div style="margin-right: 5px;">FEET</div> </div> <div style="margin-bottom: 5px;">APPROXIMATE DIAMETER OF WELL</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">6"</div> <div style="margin-right: 5px;">NEAREST INCH</div> </div> <div style="margin-bottom: 5px;">METHOD OF DRILLING (circle one)</div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">BORED (or Augered)</div> <div style="font-size: 8pt;">JETTED</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">JETTED</div> <div style="font-size: 8pt;">Jettied & DRIVEN</div> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">AIR-ROTARY</div> <div style="font-size: 8pt;">AIR-PERCUSION</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">ROTARY (Hydraulic Rotary)</div> <div style="font-size: 8pt;">Drive-POINT</div> </div> </div> <div style="margin-top: 5px;">other</div>	<div style="margin-bottom: 5px;">SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X</div> <div style="margin-bottom: 5px;">SOURCES OF DRILLING WATER</div> <div style="margin-bottom: 5px;">1. well</div> <div style="margin-bottom: 5px;">2.</div> <div style="margin-bottom: 5px;">3.</div> <div style="margin-bottom: 5px;">WRITE THE BOX NUMBER FROM THE MAP HERE</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">5004</div> <div style="margin-right: 5px;">N</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">5406</div> <div style="margin-right: 5px;">E</div> </div> <div style="margin-top: 5px;">DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION</div> <div style="text-align: center;"> </div>
<div style="margin-bottom: 5px;">REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)</div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">N</div> <div style="font-size: 8pt;">THIS WELL WILL NOT REPLACE AN EXISTING WELL</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">Y</div> <div style="font-size: 8pt;">THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED</div> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">S</div> <div style="font-size: 8pt;">THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY</div> </div> <div style="width:45%;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-bottom: 5px;">D</div> <div style="font-size: 8pt;">THIS WELL WILL DEEPEN AN EXISTING WELL</div> </div> </div> <div style="margin-top: 5px;">PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">41</div> </div> <div style="margin-top: 5px;">Not to be filled in by driller (OEP USE ONLY)</div> <div style="margin-bottom: 5px;">APPROP. PERMIT NUMBER</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">GAP</div> </div> <div style="margin-bottom: 5px;">FORCE</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">A</div> <div style="margin-right: 5px;">WRITE INITIALS IN BOX</div> </div> <div style="margin-top: 5px;">PERMIT NO.</div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; font-weight: bold; margin-right: 5px;">40-81-2360</div> </div>	<div style="margin-bottom: 5px;">SPECIAL CONDITIONS</div>

UNDERWOOD

Road




10/21/87
Site OK'g as
staked

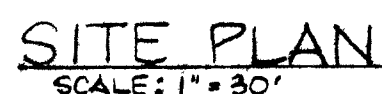
Percolating Test
plate

3/32 = 10' APPROX

Property Identification
James Peterson
Underwood road
Liberty 623 Folio 649
Tax Map 9 Parcel 167
2 Acres +

 This area designates a private sewage easement of 10,000 square feet as required by the Maryland State Department of Health and Mental Hygiene for individual sewage disposal.

James Peterson
April 6, 1987



A circular professional engineer seal for the State of Maryland. The outer ring contains the text "STATE OF MARYLAND" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring is a smaller circle featuring a landscape with a sun rising over hills and water, with the year "1776" at the base. Below the seal, the name "James E. Chisum" is written in a cursive script.

SCALE: AS SHOWN	APPROVED BY: J D C	DRAWN BY: A E S
DATE: APRIL 1987		HOWARD CO. A-58001
TAX MAP 9		PARCEL 167
UNDERWOOD ROAD		HOWARD COUNTY
LOW PRESSURE DOSING SYSTEM		DRAWING NO. 1 OF 1

70

AGREEMENT AND EASEMENT FOR
INSTALLATION OF AN INNOVATIVE AND ALTERNATIVE
ON-SITE SEWAGE DISPOSAL SYSTEM

THIS AGREEMENT is made this 5th day of MAY, among John
And Theresa Witkowski, hereinafter referred to as "Owner", the Howard
County Health Department hereinafter collectively referred to as the "County", and the
Department of the Environment, hereinafter referred to as the "Department".

WHEREAS, Owner owns a tract of land located on Underwood Road, the 3rd
Election District of Howard County, Maryland, and the deed to same is recorded
among the Land Records of Howard County, Maryland, in Liber 1871, folio 263.

WHEREAS, this land was approved as a test site for an innovative/alternative on-site
sewage disposal system on April 21, 1992 and final plans were approved on June 6, 1992.

WHEREAS, Owner's land is unsuitable for the installation of a conventional on-site
sewage disposal system and owner has requested the Department's approval to install an
innovative/alternative system of sewage disposal.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner must install and maintain a water meter on the incoming side of the water
system or an event counter on the sewage pumping system.
- B. Owner hereby grants to the Department and the County the right to enter upon the
property at any reasonable time for access to the system to make periodic inspections and the
Owner agrees to provide any information and data requested and needed by the Department
to develop accurate and thorough test results.
- C. Owner acknowledges and agrees that the proposed innovative/alternative system is
experimental and that his or her participation is voluntary. Owner agrees that there shall be
no liability on the part of the County or Department to Owner if this innovative/alternative
systems fails, and that the County and the Department do not warrant or guarantee that the
system will adequately or properly function.

2000
2000

D. Owner acknowledges and agrees that neither the County nor the Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.

E. The Owner will devote such care and effort to the maintenance of the system so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.

F. The Owner agrees, that, should the system be determined by the Department to pose a threat to the public health, safety or comfort, the Department may order any necessary changes or corrections and the Owner agrees to pay for all such changes or corrections. System modifications may include requirements for holding of sewage waste in tanks and regular pumping from the holding tanks. Upon the Department's request, the Owner agrees to enter into a contract acceptable to the Department to allow and pay either Howard County, Maryland, its agents or a private entity to pump on a regularly scheduled basis an approved holding tank system.

G. The Owner agrees to contact both the Water Management Administration, Individual Septic Systems & Wells Program and the County at least forty-eight (48) hours prior to system installation, so that the Department may lay out the system in the field with the contractor. The Owner must install this system according to the plans and specifications approved by the Department and any changes required by the Department as a result of the field layout. If installation deviates substantially from the approved plans or changes such that experimental data will be compromised or reduced, the Owner agrees to pay for all necessary corrections.

H. This agreement shall run with the land and binds the Owner, his heirs, successors, assigns except that the provisions of paragraph A & B shall be binding for a period of 5 years only after installation of the system and occupation of the home. Owner further agrees that he shall inform in writing any purchaser or lessee of the property that the system may require maintenance or other attention. The Owner agrees to record this agreement in the land records of Howard County.

I. This agreement shall not be construed to limit any authority of the Department to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

J. This agreement may be voided at the discretion of the Department if the system construction is not completed within six (6) months of the effective date of this agreement.

K. This agreement contains the entire agreement and understanding between the County and the Owner and the Department. There are no additional terms other than as contained in this agreement. This agreement may not be modified except in writing signed by each of the parties or by their authorized representatives.

L. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

DATE: 5-5-97

DATE: 5/30/97

DATE: 7/18/97

John L. Witkowski
THERESA A. Witkowski
[Signature]
Owner
J. L. Hearn
Department of the Environment
J. L. Hearn, Director
Water Management Administration

RECORDING FEE	2.00
TOTAL	22.00
RECEIVED	22.00
DATE	7/23/97
BY	11:10 am

Frank A. Skinner
Howard County
Howard County Health Dept.
Bureau of Environmental Health

Return to:

NONGNT.UNI/rev. 5/8/92

Theresa Witkowski
2720 Hobbes Road
3 Glenwood MD 21738

①
SANITARY/ENVIRONMENTAL ENG., INC.

Consulting Engineers
1414 Washington Road
WESTMINSTER, MARYLAND 21157
(410) 876-7740
FAX (410) 840-9924

JOHN + TERESA WITKOWSKI

JOB TAX MAP 9 PARCEL 167

SHEET NO. UNDERWOOD RD OF

CALCULATED BY DATE

CHECKED BY DATE

SCALE

LOW PRESSURE DOSING SYSTEM

✓OK 450 GPD

✓OK 1500 gal TOP SEAM COMPARTMENTED SERTIC TANK

✓OK 1500 gal TOP SEAM PUMP CHAMBER

LOADING RATE = $0.4 \text{ gpl} / \text{ft}^2 = 1125 \text{ sq. ft. min.}$

✓OK 4 TRENCHES - 36" WIDE - 95' LONG = $4 \times 3 \times 95 = 1140 \text{ sq. ft.}$
✓OK TRENCHES BASED ON BOTTOM AREA ONLY

✓OK TRENCH DEPTH 5' - TO ELEVATION SHOWN ON DRAWING
STONE FILL DEPTH - 2'

PRESSURE - 2' DISTAL HEAD FARTHEST POINT

✓ PERFORATIONS - 5/16" - 1.63 gpm / PERFORATION

PERFORATION SPACING - 9.5'

✓ 5 PERFORATIONS / LATERAL (8 LATERALS - CENTER FEED)

✓ $8 \times 5 \times 1.63 = 65 \text{ gpm (65.2 gpm)}$

✓ Dose = $450 / 6 = 75 \text{ gal. or}$

$63' - 3" = .63 \times 38.4 = 24 \text{ gal (24.29 gal)}$ ^{of 3" sched 40}
plus $5 \times 42.75 \times 8 = 1710' + 1\frac{1}{4}" = 17.1 \times 7.8 = 133 \text{ gal (133.38 gal)}$ ^{OK}

Dose = $24 + 133 = 157 \text{ gal (157.67 gal)}$

157 gal = 21 cu ft - Pump chamber bottom area

$12.75' \times 4.75' = 60.6 \text{ sq. ft}$

Dose Depth = $21 \text{ cu ft} / 60.6 \text{ sq. ft} = 0.35' = 4"$

Emergency Storage Above Alarm = 16" depth =

OK ✓ $1.33 \times 12.75 \times 4.75 = 80.5 \text{ cu ft} = 603 \text{ gal. (1.3 days)}$

2

SANITARY/ENVIRONMENTAL ENG., INC.

Consulting Engineers
1414 Washington Road
WESTMINSTER, MARYLAND 21157
(410) 876-7740
FAX (410) 840-9924

JOB _____

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE _____

SCALE _____

TDH

ELEVATION DIFFERENCE

INV. OF DISTRIBUTION LATERALS

PUMP OFF ELEVATION

575.00

571.33

3.67'

2.00'

F =

1.90

7.57'

TDH

OK

DISTAL HEAD

FRICTION LOSS

2" - 4' + VALVE + UNION + 3-90°

4' + 0.8' + 1.2' + 12' = 18'

Q = 1.5 gpm

Q = 1.85

f = 0.0984

4.87

(34.33)

(29.24)

2258

(2258.86)

34.3

(6.5)

100'

d = 2.0" = 2.067"

f = 0.18 x 6.5 =

1.17

(1.16)

(6.975)

OK

3" - 63' + 2-45° + 22 1/2°

63' +

12

+ 3

= 78'

equivalent ft

F = 0.0984

2258

(0.945)

235

(3.068)

4.87

F = 0.9 x 0.78 =

0.7

(1.737)

F = 1.2 + 0.7 =

1.9

(1.897)

OK

PUMP - GOULDS

WE 03 11 L

1/3 hp - 1 ph - 115V



Goulds Submersible Effluent Pump

MODEL

3885

CANADIAN STANDARD ASSOCIATION



APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump:

- Solids handling capabilities: 3/4" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 128 GPM.
- Total heads: up to 123 feet TDH.
- Mechanical seal: silicon carbide-rotary seat/silicon carbide-stationary seat, 300 series stainless steel metal parts, BUNA-N elastomers.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- Fasteners: 300 series stainless steel.
- Capable of running dry without damage to components.

Motor:

- Single phase: 1/3 HP 115 or 230 V 60 Hz, 1750 RPM; 1/2 HP, 115 V, 60 Hz, 3500 RPM; 1/2 HP - 1 1/2 HP, 230 V, 60 Hz, 3500 RPM. Built-in overload with automatic reset. Class B insulation.

- Three phase: 1/2 HP - 1 1/2 HP 200/230/460 V, 60 Hz, 3500 RPM. Class B insulation, overload protection must be provided in starter unit.
- Shaft: threaded, 400 series stainless steel.
- Bearings: ball bearings upper and lower.
- Power cord: 20 foot standard length (optional lengths available).
- Single phase: 1/3 and 1/2 HP - 16/3 SJTO with three prong plug. 3/4-1 1/2 HP - 14/3 STO with bare leads.
- Three phase: 1/2-1 1/2 HP - 14/4 STO with bare leads. On CSA listed models - 20 foot length SJTW and STW are standard.

FEATURES

Impeller: Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

Casing: Cast iron volute type for maximum efficiency. 2" NPT discharge adaptable for slide rail systems.

Mechanical Seal: Silicon carbide vs. silicon carbide sealing faces. Stainless steel metal parts, BUNA-N elastomers.

Shaft: Corrosion-resistant stainless steel. Threaded design. Locknut on three phase models to guard against component damage on accidental reverse rotation.

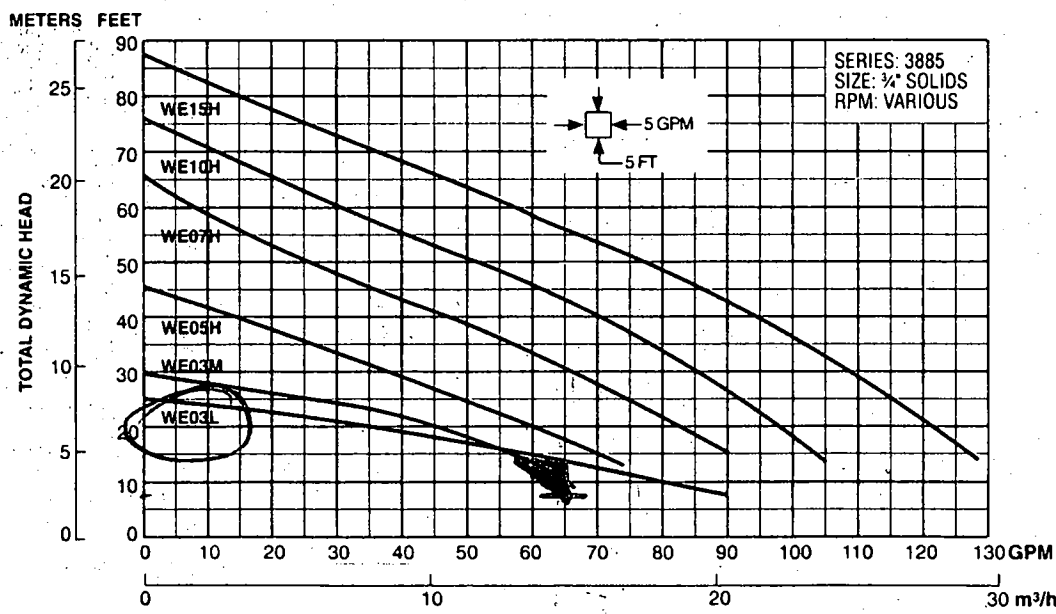
Motor: Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage.

Bearings: Upper and lower heavy duty ball bearing construction.

Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking.

O-ring: Assures positive sealing against contaminants and oil leakage.



Tax Map 9 Parcel 167
Underwood Road
Howard Co. A-58001

SPECIFICATIONS
Low Pressure Dosing System

1. Design Criteria

Design Flow \checkmark 50 gpd
1 - 1500 Gal. Compartmented Top Seam Septic Tank
1 - 1500 Gal. Pump Chamber
157 Gal. Dose @ 65 gpm
Trench Area - 1140 Sq. Ft.
TDH - 7.6'

2. Sewage Treatment

OK One 1500 gallon compartmented top seam septic tank is to be installed in series with a 1500 gallon top seam pump chamber. The pump chamber is to provide 18" of depth for submergence, 4" for pump cycle dose, and 6" for the high water alarm. The additional capacity of the pump chamber will provide 600 gallons of emergency storage above the high water alarm.

✓ The above capacities and tank measurements and elevations shown on the drawing are based upon septic tanks as manufactured by Mayer Bros., Inc. Elkridge, MD (301) 795-1434

✓ 3. A quick disconnect union and gate valve are to be provided on the pump discharge line as shown on the drawing.

✓ 4. Pressure piping from the pump chamber to the laterals is to be 3" Schedule 40 PVC.

✓ 5. Distribution laterals are to be 1-1/4" Schedule 40 PVC.

✓ 6. A submersible effluent pump to remove 65 gpm against 7.6' TDH is to be provided. The pump should be Goulds Model WE0311 L, 1/3 hp, 1 ph, 115v, or equal. The pump control box is to be located above ground in a weatherproof enclosure or in the house.

✓ 7. The high level sounding alarm is to be on a separate electrical circuit. The alarm is to be located in the house.

✓ 8. Gravel for the trenches is to be 3/4" to 2" in diameter, washed and free of fines.

✓ 9. A test of the pumping system and distribution piping may be required prior to covering the system.

10. One inch and one quarter ($1\frac{1}{4}$ ") laterals are to be of the length shown on the drawing with $5/16$ " perforations $9'6"$ apart. *OK*

NOTE: The above specifications and accompanying drawing have been prepared based upon determination of soils and site conditions as made by personnel of the Bureau of Environmental Health, Howard Co. Health Dept.

✓ An AGREEMENT AND EASEMENT must be signed by the owners, recorded in the land records and returned to the Howard County Health Dept., as required by the Maryland Dept. of the Environment.

4/18/97

S/E Engineering, Inc.

3/21/97
1:30

APPLICATION

PERCOLATION TESTING

A 58001

P _____

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE 3-3-97

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

PERVIEW OK
PROPOSAL IS
TO ATTEMPT
TO MOVE
SEPTIC AREA
FURTHER BACK ON
LOT (WGT SEASON)

REQ'D
CW

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER

John and Theresa Witkowski
CURRENT ADDRESS 2920 Hobbs Rd Glenwood MD 21738
ADDRESS Lot 2A Underwood Rd PHONE Hm (301) 854-5824 (wk) 991-3300
Theresa
EX 324

AGENT OR PROSPECTIVE BUYER

N/A Sykesville, MD 21784

ADDRESS _____

PHONE _____

BLDG. PERMIT STARTED

PROPERTY LOCATION:

AND RETURNED 9-24-97

SUBDIVISION

Peterson Property

LOT NO.

2A - SFD - 3 Bm

ROAD AND DESCRIPTION

Underwood Road, VACANT Lot

TAX MAP

9

PARCEL #

167

SIZE OF LOT

2 acres

TYPE BLDG.

SINGLE Family Dwelling
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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. I ALSO AGREE TO

COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

John Witkowski
(SIGNATURE OF APPLICANT)

3-3-97

APPROVED BY _____

FOR _____

DATE _____

DISAPPROVED BY _____

FOR _____

DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____

DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____

DATE _____

THIS IS NOT A PERMIT

REMARKS 8V 7 1/2 ALL CLAY

TYPE OF SOIL 8AS 3' 10" 4-25 TOO SLOW

TESTED BY M. Ripkin ALSO PRESENT Owners, Milk Exc

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

APPLICATION

PERCOLATION TESTING

A _____

P _____

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Witkowski

ADDRESS _____ PHONE _____

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION Underwood Rd

TAX MAP _____ PARCEL # _____

SIZE OF LOT _____ TYPE BLDG. _____
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

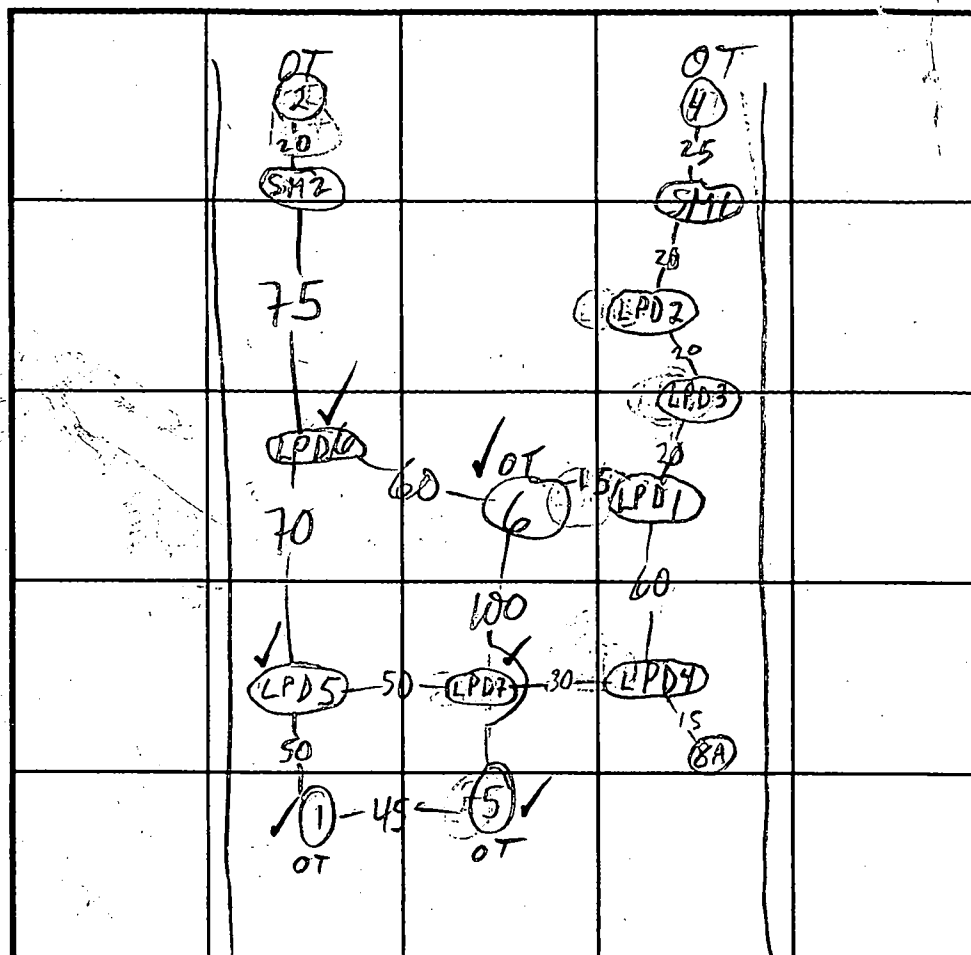
LPD1

brn yel
scl lm2
yel red
scl lm3-4
tan
yel red
si lm5
BOT

LPD6

orge brn
scl lm4-
4-
orge
brn tan
si lm

LPD5

orge
cl lm2
orge
brn
scl lm4
gray tan5
sa lm
BOT

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

UNDERWOOD RD

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
3/31/97	SM 1	24-30"	10:21	10:54	4/164	5/164	FAIL
	SM 2	24-30"	10:37	TIME NOT OBS'D SIMILAR TO SM 1			
	LPD 1	3 1/2 5	11:39 11:37	11:56 11:56	2 1/8"	11:56	12:17 21
	LPD 2	5	12:16	12:50	< 1/8"	SLOW	FAIL
	LPD 3	4	12:23	12:55	1/2"	SLOW	
	LPD 4	5	12:25	1:14	< 1/2"	SLOW	FAIL
	LPD 5	5	1:04	1:45	< 1"	SLOW	FAIL
	LPD 6	5	2:18	2:26	2:26	2:34	8"
	LPD 7	5	2:45	3:00	3:00	3:18	18"
	LPD 8	5	3:12	3:45	3:45	4:45	60"

REMARKS ✓ = RECOMMEND USE FOR LPD SYSTEM

TYPE OF SOIL

TESTED BY

M. RIFKIN

ALSO PRESENT

Owners, D.W. Exc.

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

25

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

April 8, 1997

John and Theresa Witkowski
2720 Hobbs Road
Glenwood, MD 21738

RE: Percolation Test Results
A # 58001
Adjustment to Existing
Sewage Reserve Area
Peterson Property
Tax Map 9, Parcel 167

Dear Mr. and Mrs. Witkowski:

We had previously advised that percolation testing conducted March 17, 1997 on the above referenced property indicated elevated groundwater levels in the location proposed for a relocated sewage reserve area as well as in the location that had been previously established. A second round of tests was conducted March 31, 1997; copies of these test results are enclosed.

While the percolation rates were too slow for sand mound and conventional septic systems, these test rates appear suitable in one area (specifically test holes 1, 5, 6, LPD5, LPD6, LPD7) to recommend use for a type of septic system known as a low pressure dosing system. Although less than the 10,000 square feet originally tested, this area appears to be large enough for the required initial system and one repair system.

At this point, submission of a detailed low pressure dosing design by a registered engineer or other competent professional is requested. Please have your engineer contact Ron Pinkley in this office for additional design detail before making a formal submittal.

To contact Mr. Pinkley, or if you have any questions, please call 313-2640.

Very truly yours,

Mark E. Rifkin
Water and Sewerage Program

Enclosure
cc: File

Road

S 88° 06' 12" W 172.22'

S 89° 16' E 140.00'

250'

62.13'

31'

31'

21'

N 02° 12' W 102.00'

302° 37' E

302° 37' E

302° 37' E

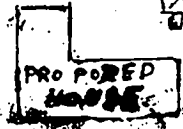
302° 37' E

302° 37' E

302° 37' E

302° 37' E

302° 37' E




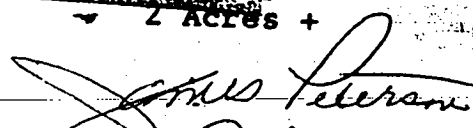
INFORMAL
PONE PCT
SUBMITTAL
OK JULY 21/1987

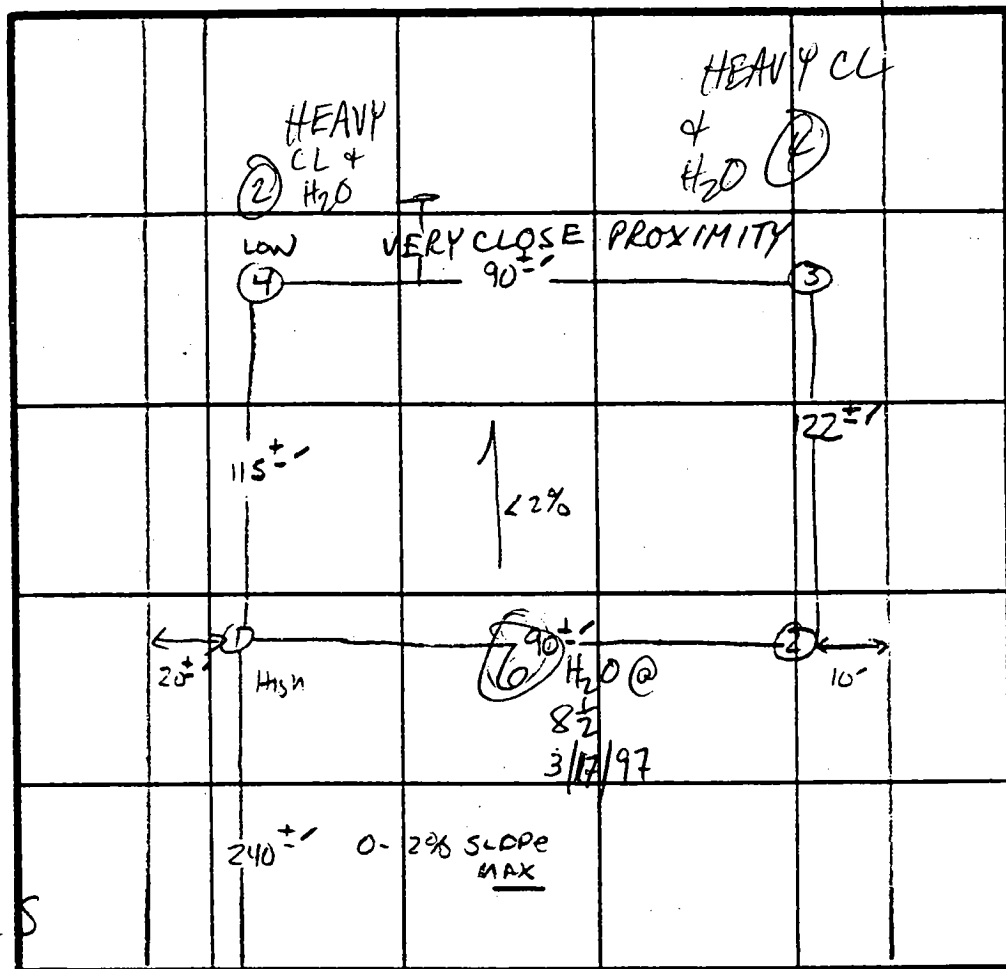
Percolating Test
plat

3/32 = 10" APPROX.

Property Identification
James Peterson
Underwood road
623 Folio 649
Map 9 Parcel 167.
2 Acres +

 This area designates a private sewage easement of 10,000 square feet as required by the Maryland State Department of Health and Mental Hygiene for individual sewage disposal.


April 6, 1987



XPERC
 9min
 240° BR
 INLET 4.5'
 BOTTOM 6.5'

SEE
 PERC
 OF
 3/12/97
 ON
 SEPARATE
 SHEET

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.
 CL UNDERWOOD RD.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
3/12/87	1 S	6"	12:44	12:47	12:47	12:53	6min
	1 M	8.5"	12:45	12:48	12:48	12:54	6min
	1 V	11.5"	UNIFORM SOIL below		5.5"	WATER AT 10.5" 2HR.	
	2 S	6"	12:54	1:06	1:06	1:31	25min
	2 V	12"	UNIFORM SOIL below		5.5"		
	3 S	6.5"	12:58	1:00	1:00	1:05	5min
	3 V	11.5"	UNIFORM SOIL below		5.5"	WATER AT 11"	
	4 S	5"	1:09	1:13	1:13	1:17	4min
	4 V	13"	UNIFORM SOIL below		4.5"	H2O AT 8 1/2" 2hrs	
	1 S1	5"	1:21	1:23	1:23	1:28	5min
	2 S1	5" 2"	1:19	NO MOVEMENT AT 5"			

6" MAX. TEST DEPTH

REMARKS SHALLOW SYST ONLY - INLET 4.5' BOTTOM 6.5'

TYPE OF SOIL CHOSTER

TESTED BY S. Abel

ALSO PRESENT Fyork & Co.

APPLICATION

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

PERCOLATION TESTING

RECEIVED
HOWARD COUNTY
HEALTH DEPT

MAR 6 4 31 PM '87

DIVISION OF
ENVIRONMENTAL
HEALTH

DISTRICT

DATE Feb 27 1987

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.

✓ PROPERTY OWNER JAMES PETERSON
✓ ADDRESS 8201 SCHRIDER ST SS MD 20910 PHONE 587-6308 W
✓ PROSPECTIVE BUYER To Build a home for
✓ ADDRESS my own PHONE _____
✓ PROPERTY LOCATION: _____
✓ SUBDIVISION LIBER-623- FOLIO 647 LOT NO Andrew Rd
✓ ROAD AND DESCRIPTION On Andrew Rd Sept 1 mile and
Lyskville
✓ TAX MAP 9 PARCEL # 167
✓ SIZE OF LOT 2 acres TYPE BLDG Single Dwelling
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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. I ALSO AGREE TO COMPLY
WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. ✓ James Peterson
(SIGNATURE OF APPLICANT)

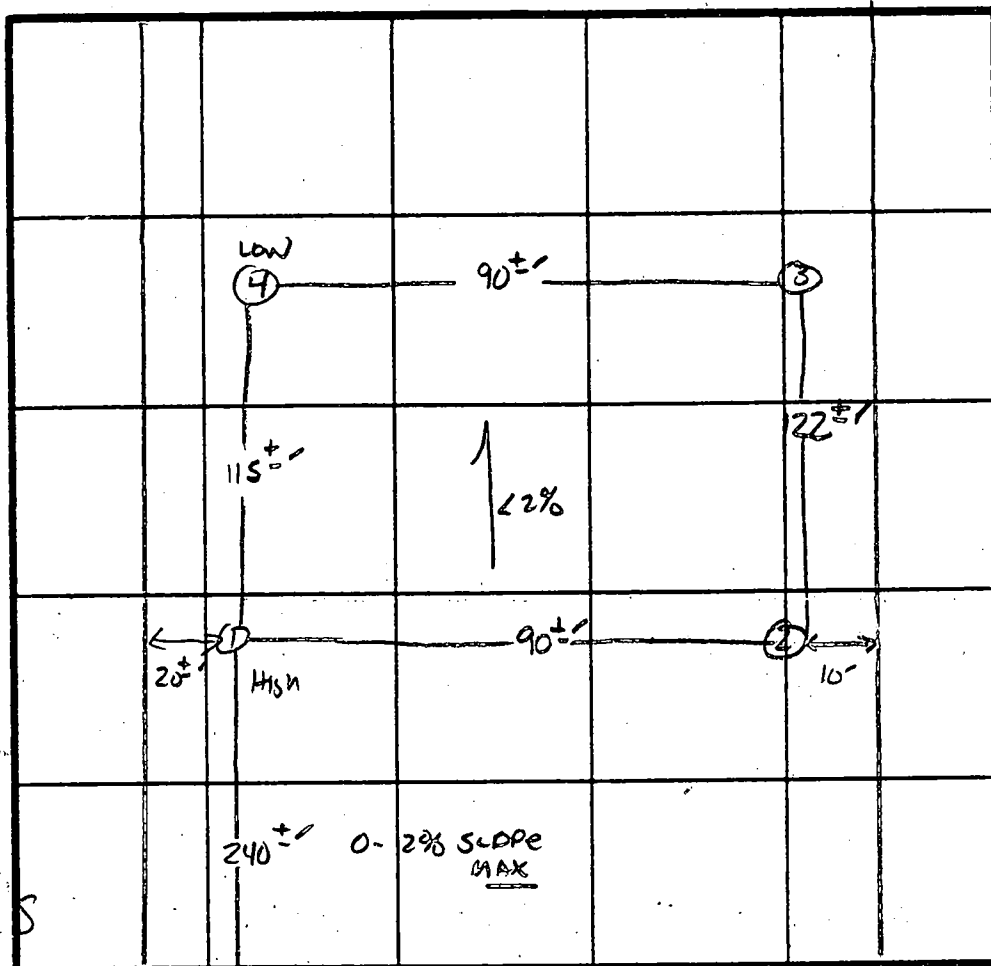
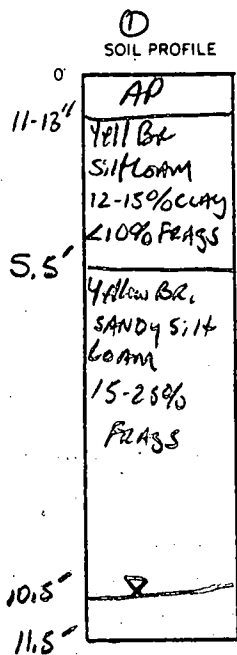
APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT



X Perc
9 min
2400 BR
INLET 4.5'
BOTTOM 6.5'

SEE
PERC NOTES
OF
3/17/97
ON
SEPARATE
SHEET

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE
CL UNDERWOOD Rd.

DATE	TEST NO.	DEPTH	PRE WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
3/12/87	1 S	6"	12:44	12:47	12:47	12:53	6 min
	1 M	8.5"	12:45	12:48	12:48	12:54	6 min
	1 V	11.5"	UNIFORM SOIL below		5.5"	WATER AT	10.5" 2 HR.
	2 S	6"	12:54	1:06	1:06	1:31	25 min
	2 V	12"	UNIFORM SOIL below		5.5"		
	3 S	6.5"	12:58	1:00	1:00	1:05	5 min
	3 V	11.5"	UNIFORM SOIL below		5.5"	WATER AT 11"	
	4 S	5"	1:09	1:13	1:13	1:17	4 min
	4 V	13"	UNIFORM SOIL below		4.5"	IT 2 AT	2 hrs
	1 S ₁	5"	1:21	1:23	1:23	1:28	5 min
	2 S ₁	5" 2"	1:19	NO MOVEMENT AT 5"			

6" MAX. TEST DEPTH

REMARKS Saturated syst only - INLE 4.5" BOTTOM 6.5"

TYPE OF SOIL CHOSTER

TESTED BY S. Abel ALSO PRESENT Fyock & Co.

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES

P. O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE 992-2330

A 34251

P _____

DISTRICT III

DATE 8/20/84

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.

PROPERTY OWNER JAMES PETERSON - (Collins)

ADDRESS 8201 SCHRIEDER ST. MD PHONE 301-587-6308
SILVER SPRING, 20910 WORK 202-526-1555

PROPERTY LOCATION: Tax map 9, parcel 167

SUBDIVISION _____ LOT NO. 1392

ROAD AND DESCRIPTION (UNDERWOOD RD.) I 70 TO 32 NORTH 1/2 MILE
LEFT ON OLD FREDRICK 2 1/2 MILES RIGHT ON UNDERWOOD

SIZE OF LOT 2 ACRES 210' BY 420' TYPE BLDG. 3
(NUMBER OF BEDROOMS)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE
442-2373
FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY

WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. Not D. Hand 442-2691
13735 FOR SIGNATURE OF APPLICANT By Kesville 21784

APPROVED BY Cwell FOR TREASURER DATE 6/25/87

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 2/27/84 - CLAY SOIL & UNDERGROUND WATER

RECOMMEND RETEST IN WET SEASON. ALSO TEST PLAT
NEEDED & DATE PLAT PUT RECORD NEEDED R12

10/30/84 Agricul/atom comments - lot equally or higher than Adjacent lot w/ house

THIS IS NOT A PERMIT

SOIL PROFILE

0' BROWN CLAY

3 1/2' SAND & CLAY MIX

8' SAND BROWN

13' WATER

14'

0' (2) BROWN CLAY

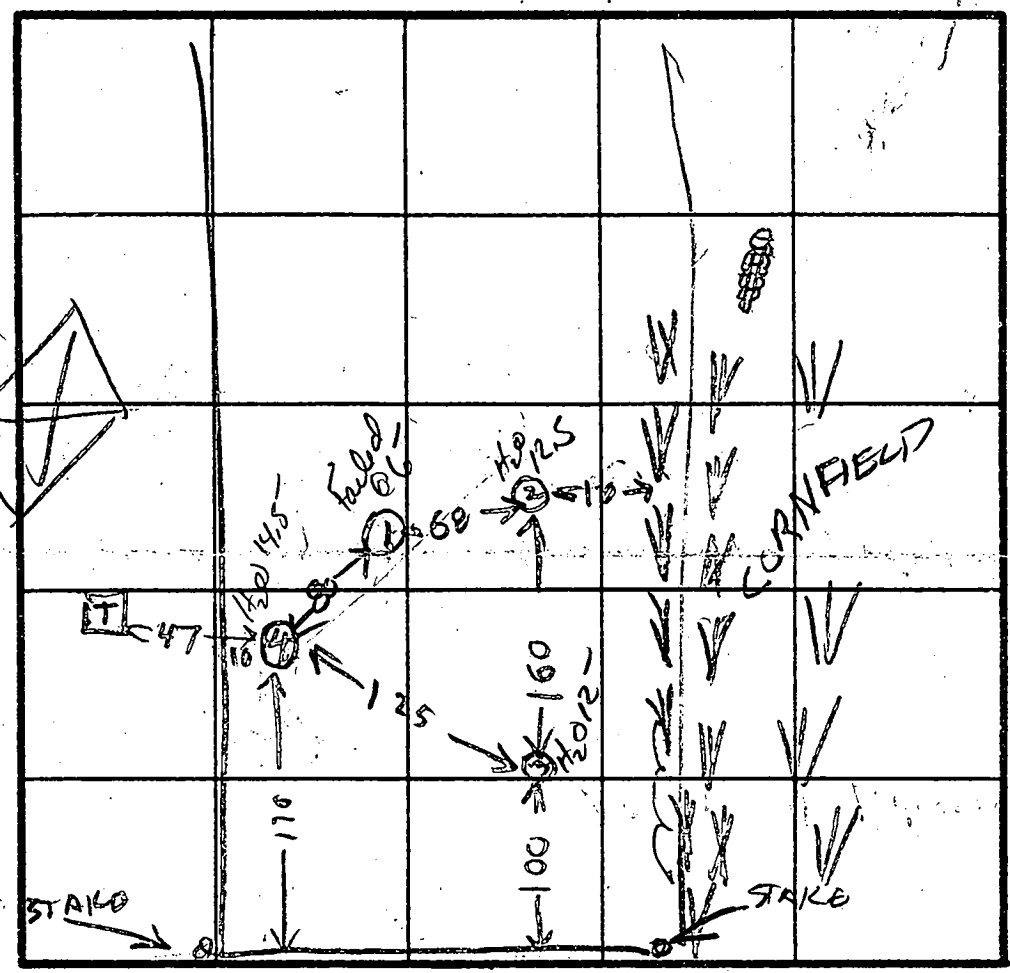
5' BROWN CLAY

12' WATER

13 1/2'

(3) ALL BROWN WHITE CLAY

13'



(4)

0' BROWN CLAY

5 1/2' BROWN SAND

13 1/2' WATER

14 1/2'

[T] 2" TAIL OR DRY WELL ON NEXT LOT

HOLE ELEVATION

(4) = HIGHEST
(2) = LOWEST
(13) = MEDIUM

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

UNDERWOOD RD

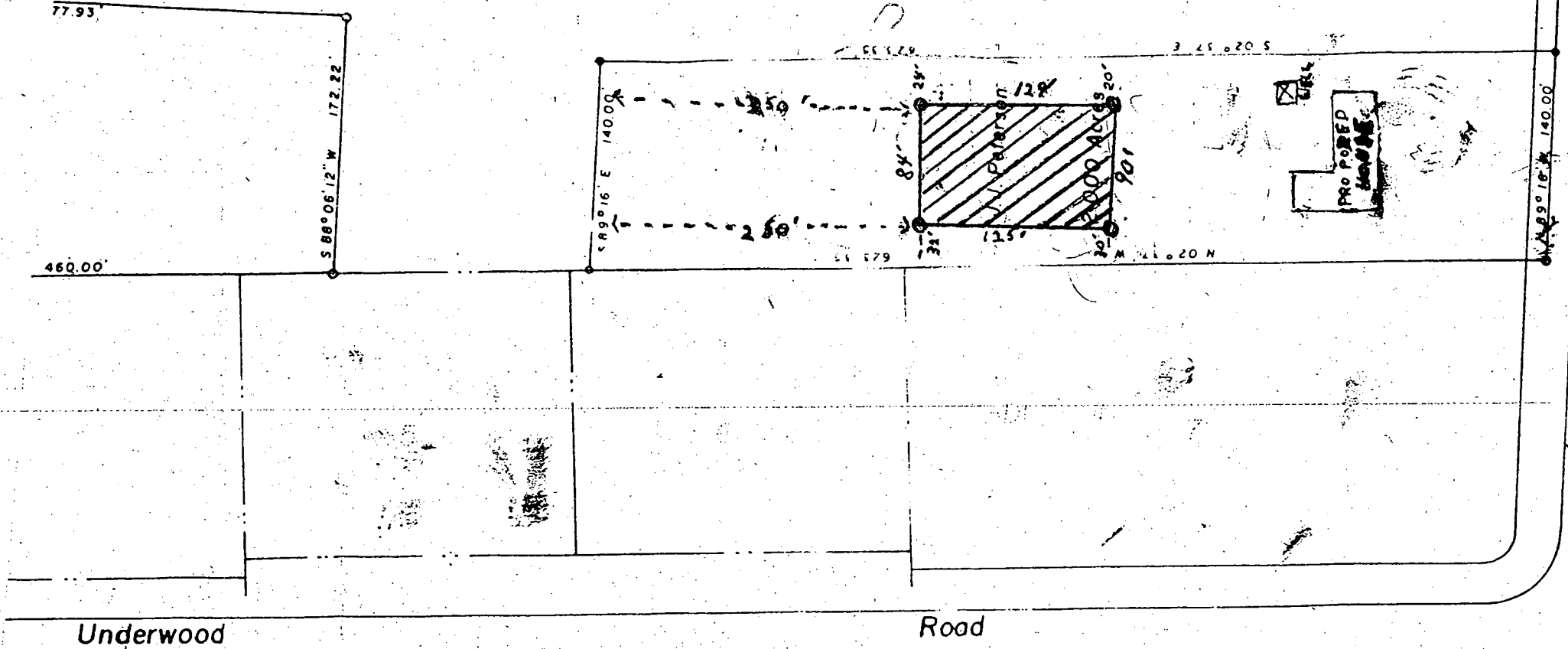
DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8/21/24	15	6	1010	1035	1035	1105	12:45 PM
	16	14	LOOKS	UNSATIS	FACTORY		
	23	2 1/2	1100	1014	1114	1140	26
	24	13	WATER	12 1/2 FT	UNSATISFACTORY		
	3 1/2	12	WATER	12 FT	LOOKS UNSATISFACTORY		
	40	8 1/2	1203	1208	1208	1220	12
	45	6	1213	1218	1218	1225	7
8/27/24	4V	14 1/2	WATER	14 FT		13'	

REMARKS: LOT SLIGHTLY SLOPED RECOMMEND MORE TEST IN WET SEASON

TYPE OF SOIL

TESTED BY R. HODGES

ALSO PRESENT COLLINS BACKHOLE



OK SUBMITTAL
INFORMAL
APRIL 6, 1987

Percolating Test

3/11 = 10' APPROX.

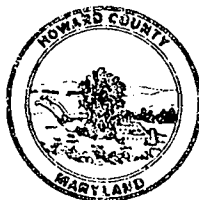
Property Identification
James Peterson
Underwood road
Lot 623 Folio 649
Map 9 Parcel 167

This area designates a private sewage easement of 10,000 square feet as required by the Maryland State Department of Health and Mental Hygiene for individual sewage disposal.

James Peterson
April 6, 1987

HOWARD COUNTY HEALTH DEPARTMENT

JOYCE M. BOYD, M.D., M.P.H.
COUNTY HEALTH OFFICER



BUREAU OF ENVIRONMENTAL HEALTH
TIBER PLACE
83088 FORREST STREET
ELLCOTT CITY, MARYLAND 21043
TELEPHONE: 992-2330

September 25, 1984

Mr. Kurt Harden
13735 Forsythe Road
Sykesville, Maryland 21784

RE: Property -
Tax Map 9, Parcel 167

Dear Mr. Harden:

On August 27, 1984, Mr. Raymond Hodges, of this bureau, observed percolation tests on the James Peterson property on Underwood Road.

The lot failed the standard percolation tests, and is considered non-buildable at this time. This failure was due to a high water table in all 4 test holes and heavy clay soil in 3 test holes.

If you have any questions regarding this matter, please call me at 461-9933.

Very truly yours,

A handwritten signature in cursive script that reads "Frank Skinner".

Frank Skinner, Director
Water and Sewerage Program

FS:jr

cc: Department of Assessments and Taxation
James Peterson



May Brothers

"Building Affordable, Custom-Modular Homes...Since 1981"

September 16, 1997

Mr. Ronald J. Pinkley, R.S.
Water and Sewage Program
Bureau of Environmental Health

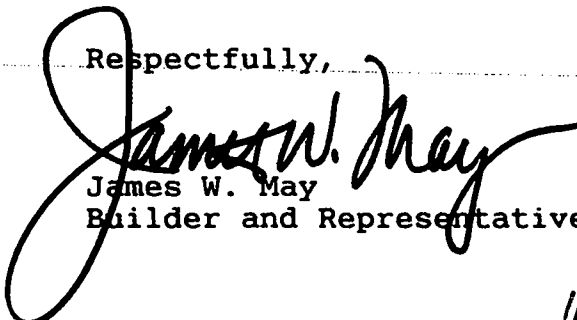
R.E. 1401 Underwood Road
Sykesville, Maryland 21784

Dear Mr. Pinkley,

I received your letter and I am puzzled by your requirement. I will assume you are imposing this hardship on the lot owners and the builder because you feel the need to PROTECT the virgin soil conditions of the septic area. In the event this is correct I wish to propose an alternative that will eliminate the "hardship" and allow you to satisfy your needs. I propose to have a Licensed Maryland Surveyor stake the corners of the approved septic area, I will then install fence posts and define and protect the area from construction traffic with the orange construction fence. I will expect you would like to inspect this installation before approving the building permit.

We will appreciate your cooperation.

Respectfully,

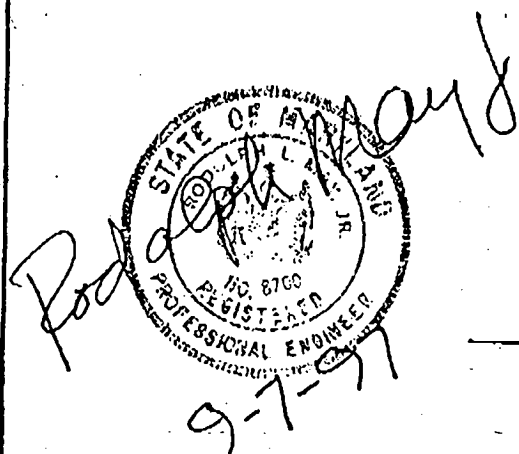


James W. May

Builder and Representative for Mr. and Mrs. Witkowski

B00107836

We agreed on an alternative; Garage location was changed on BP plan to provide ample distance from primary system drainfield and space for pump chamber and septic tank placement. To be followed by a stakeout inspection. LPOK & M release BP. 9/17/97



PLOT PLAN			BUILDER/APPLICANT
PARCEL 167 UNDERWOOD ROAD			MAY BROTHERS
5THED	HOWARD CO MD		PO Box 129 WEST FRIENDSHIP MD 21794 410-9889702
SEPTEMBER 9, 1997			MAY ENGINEERING, INC 3030 ST PAUL ST BALTIMORE MD 21218 VOKE/FAX 410 2434029
1"=50	TAX MAP 9	PARCEL 167	

