

5/19/98 + WPI  
AFIC NOV 2

# PERMIT

## SEWAGE DISPOSAL SYSTEM

### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

05-424596

P 510143

A 56512

DISTRICT 5th

DATE 5-14-98

DATE SYSTEM APPROVED 6/2/98

INSPECTOR AM

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
~~XXXX-9933X~~ 410-313-2640

# INDEXED

J. Joseph Gartland IS PERMITTED TO INSTALL  ALTER

ADDRESS 1835 West Old Liberty Rd, Westminster, MD 21157 PHONE 410-875-2400

SUBDIVISION Mauck Property LOT 2 ROAD 11231 Old Hopkins Road

PROPERTY OWNER Jack Schaefer

ADDRESS \_\_\_\_\_

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

210 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 280

TRENCHES - 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 - Begin trenches 190 feet off the front (130.23') lot line and 40 feet off the right (307.69') lot line as seen when facing the lot from Old Hopkins Road. Run trenches on contour in both directions.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. *2/25/98 OK AM Miller*

PLANS APPROVED BY Amy McMillen/Donna K. Soe REVISED \_\_\_\_\_ DATE 02/17/98

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

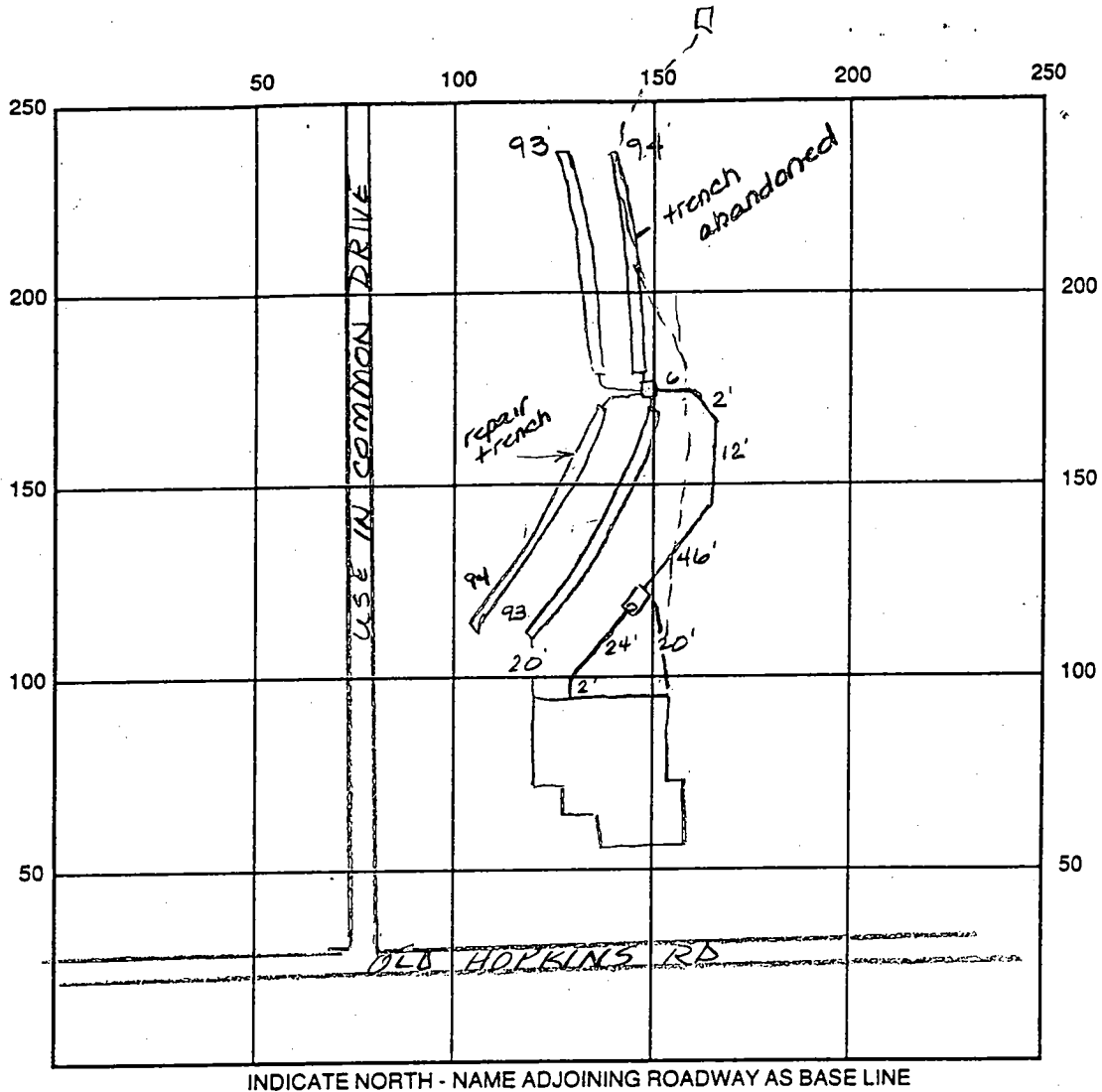
PERMIT VOID AFTER TWO YEARS

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

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

A 56512



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL OK 1250 gal CLEANOUTS OK

DISTRIBUTION BOX LEVEL OK baffle is in

DRAIN FIELD/TITLE DEPTH 5.0 FT. TRENCH WIDTH 3.0 FT. INLET DEPTH 3.0 FT.

EFFECTIVE GRAVEL DEPTH 2.0 FT. TOTAL LENGTH 280 FT.

NUMBER OF TRENCHES 3 ONE SIDEWALL/BOTTOM AREA 840 SQ. FT.

DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET 2.0 FT.

ABSORBENT AREA — SQ. FT.

REMARKS: 5/19/98 OK to cover all work - house has moved 20'

toward the rear prop line - wall check needed

6/2/98 Wall check recieved - house moved apprx 15 to 20' back - owner (Mrs. Schaefer)

informed that due to change ~~any~~ future plans for a deck would be

restricted to a 10' wide maximum. Also 5/18/99 it was abandoned and replaced

5/19/98 WPI OK to cover ~~all~~

DATE SYSTEM APPROVED 6/2/98 INSPECTOR A McMillen

**ENGINEER'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Build & Date*  
 SIGNATURE OF ENGINEER L.S. 10702 DATE 1-30-98

**DEVELOPER'S CERTIFICATE**

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

*Jack Schaefer*  
 SIGNATURE OF DEVELOPER 1-30-98 DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*Clay Simmon*  
 U.S. SOIL CONSERVATION DISTRICT DATE 2/4/98

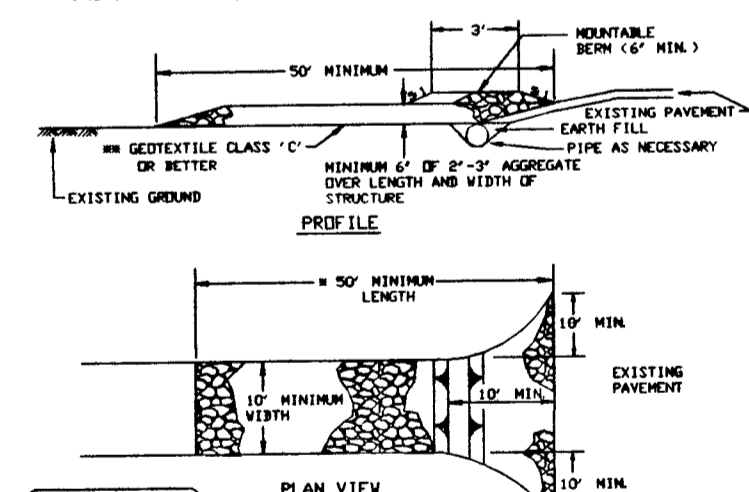
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

*John R. Pollock*  
 DISTRICT HOWARD SOIL CONSERVATION DIST. DATE 2/4/98

**SEEDING CONTROL NOTES**

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-10550).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR TEMPORARY SEEDING PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, Dikes, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3% b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 301.500 (SEC. 5A), TEMPORARY SEEDING (SEC. 501 AND MULCHING (SEC. 502), TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
 

TOTAL AREA OF SITE	1.00	ACRES
AREA TO BE ROOFED OR PAVED	0.30	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.70	ACRES
TOTAL CUT	100	CU.YDS.
TOTAL FILL	100	CU.YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



STABILIZED CONSTRUCTION ENTRANCE - 2  
 NOT TO SCALE

- Length - minimum of 50' (30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 3:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage when the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT.
- INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN.
- PERFORM NECESSARY GRADING AND STABILIZE THE SITE.
- AFTER THE SITE IS STABILIZED AND PERMISSION IS GRANTED FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS.

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

**SEEDING PREPARATION:**  
 LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.  
 IF NOT PREVIOUSLY LOOSENED.

**SOIL AMENDMENTS:**  
 APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.)

**SEEDING:**

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 1 1/2 BUSHEL PER ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 31, SEED WITH 3 LBS./ACRE OF WEEPING LOVEGRASS (0.7 LBS./1000SQ.FT.) FOR THE PERIOD NOVEMBER 15 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

**MULCHING:**

APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (9 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 340 GALLONS PER ACRE (9 GAL./1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1996 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**PERMANENT SEEDING NOTES**

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

**SEEDING PREPARATION:**  
 LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

**SOIL AMENDMENTS:**  
 APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (4 LBS./1000 SQ.FT.) BEFORE SEEDING. SEED WITH 1 1/2 BUSHEL PER ACRE OF WEEPING LOVEGRASS (0.7 LBS./1000 SQ.FT.) INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.) AND 500 LBS. PER ACRE (11.5 LBS./1000 SQ.FT.) OF 10-20-20 FERTILIZER.

**SEEDING:**

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 31, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 80 LBS./ACRE (4 LBS./1000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROJECT SITE BY: OPTION (1) - TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OPTION (2) - USE 500; OPTION (3) - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDED.

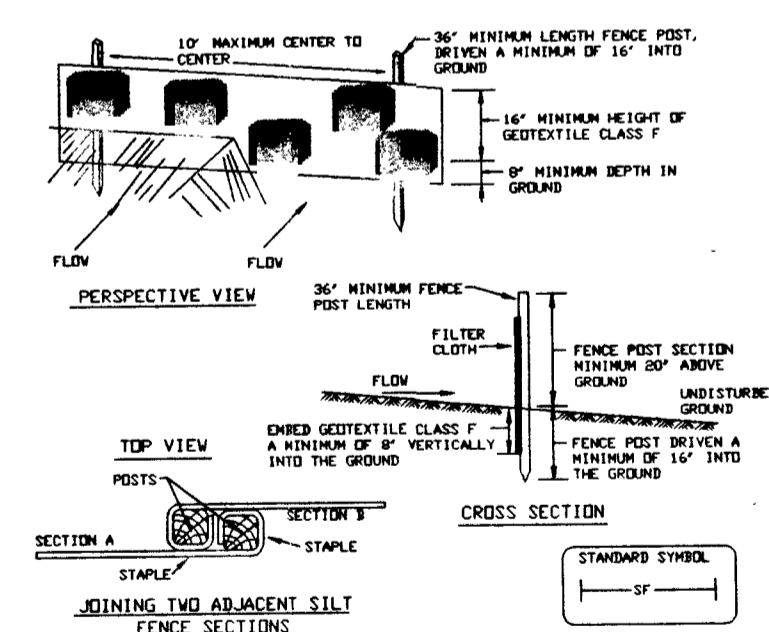
**MULCHING:**

APPLY 1 1/2 TO 2 TONS PER ACRE (80 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (9 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 340 GALLONS PER ACRE (9 GAL./1000 SQ.FT.) FOR ANCHORING.

**MAINTENANCE:**

INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

\* FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWFOOTCH AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.



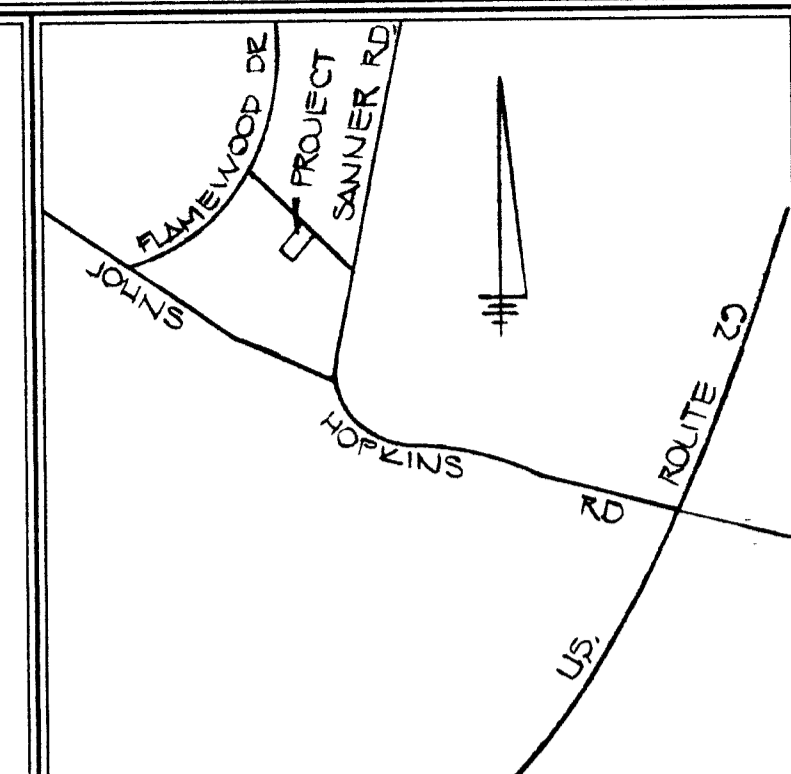
JOINING TWO ADJACENT SILT FENCE SECTIONS  
 Construction Specifications

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:
 

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.2 gal. per minute (max.)	Test: MSMT 502
Filtering Efficiency	75% (min.)	Test: MSMT 502
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Site Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SILT FENCE  
 NOT TO SCALE

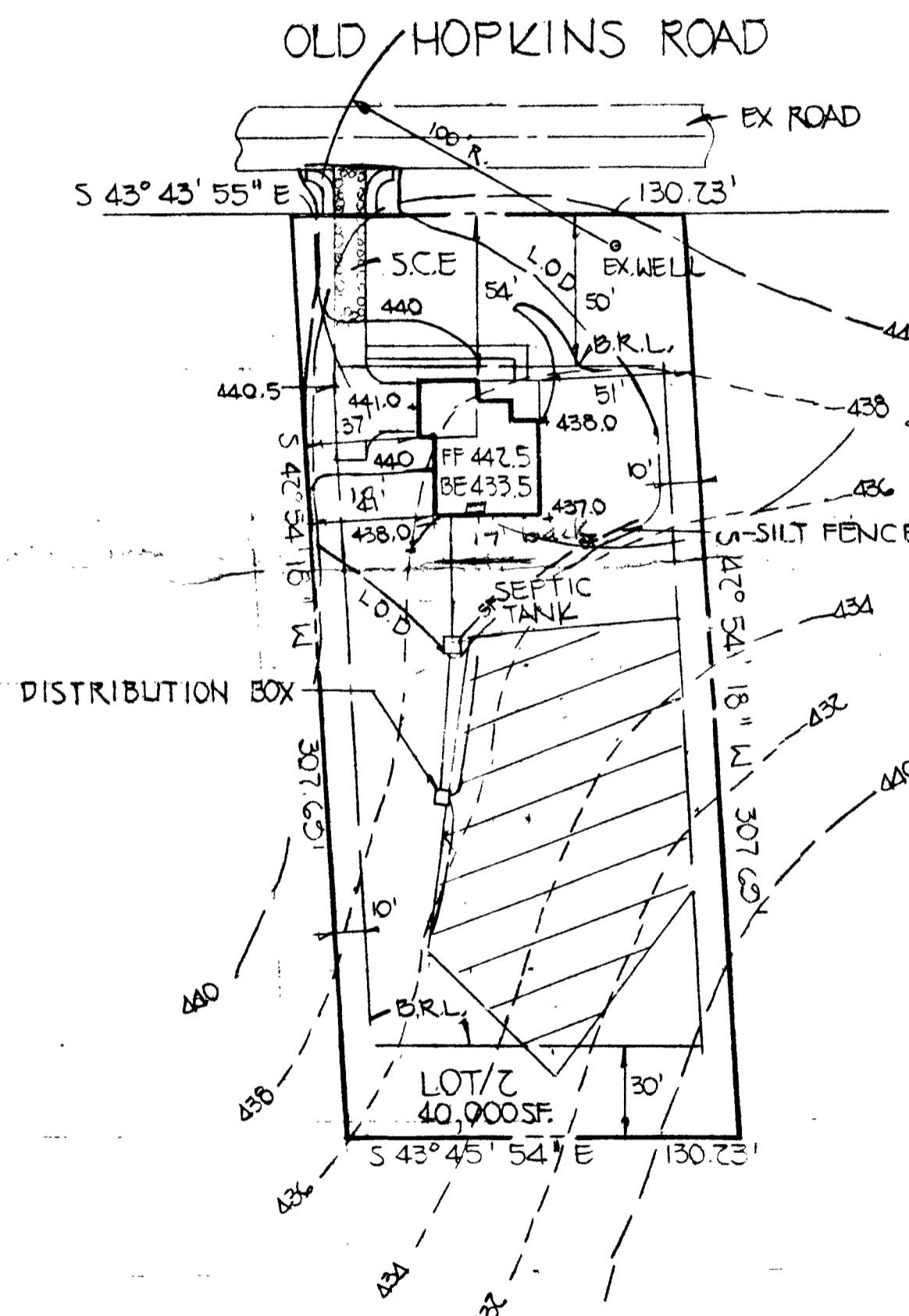
TOPSOIL SPECIFICATIONS FOR SITES UNDER 5 ACRES:  
 PLACE TOPSOIL IF REQUIRED AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION- SECTION 1 VEGETATIVE STABILIZATION METHODS AND MATERIALS 1994 MARYLAND STDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.



VICINITY MAP  
 SCALE: 1"=2000'

**GENERAL NOTES**

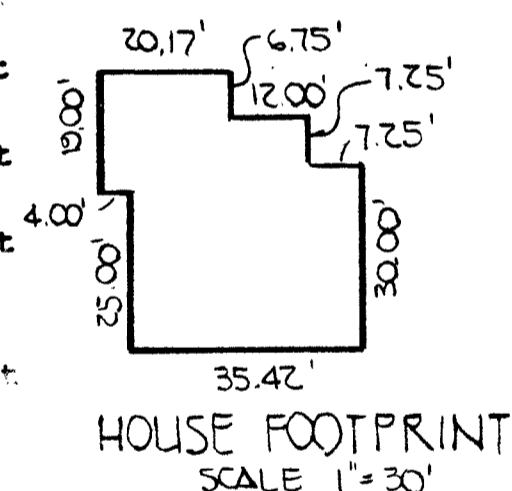
- SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT No.
- PROPOSED 1500 GALLON SEPTIC TANK:
  - A. FIRST FLOOR ELEVATION: 442.50
  - B. BASEMENT ELEVATION: 433.80
  - C. INVERT OF SEPTIC SYSTEM AT HOUSE: 435.80
  - D. INVERT IN AT SEPTIC TANK: 435.00
  - E. INVERT OUT AT SEPTIC TANK: 434.10
  - F. PROPOSED GRADE OVER SEPTIC TANK: 437.00
  - G. INVERT AT DISTRIBUTION BOX: 433.20
  - H. EXISTING GROUND OVER DISTRIBUTION BOX: 434.20
- LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
- CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION. THERE IS NO BASEMENT SERVICE TO SEPTIC SYSTEM.



Approved Septic System Plan  
 Howard County Health Department

*Donna Lee*  
 Date 2/17/98

Total linear feet of trench required 280 feet  
 Width of trench(es) 3 feet  
 Depth of trench(es) 5 feet  
 Width of stone required below distribution box 2 feet



HOUSE FOOTPRINT  
 SCALE 1"=30'

PLAN TO ACCOMPANY  
 BUILDING PERMIT APPLICATION  
 LOT 2  
 MALICK PROPERTY  
 5 TH ELECTION DISTRICT HOWARD CO. MD  
 SCALE 1"=50' JANUARY 1998

GP-98-102

10/12/95

# APPLICATION

PERCOLATION TESTING

A 50900

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

DISTRICT \_\_\_\_\_

DATE 9-29-95

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 JACK SCHAEFER

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER Land Design & Development

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION Cashmark LOT NO. EX DWELLING 5 1-2 LOTS

ROAD AND DESCRIPTION Appx 100 yards from intersection of John's (Hopkins) & Sunner Road on left side  
(11231 Old Hopkins Road)

TAX MAP \_\_\_\_\_ PARCEL # \_\_\_\_\_

SIZE OF LOT \_\_\_\_\_ TYPE BLDG. SFD - 4 Bins  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

**BLDG. PERMIT SIGNED  
AND RETURNED 2-17-98  
Serial # 810109860**

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

A50900

COUNTY #

SOIL PROFILE

A D G

yellow tan  
SiCLM

3.5' red Salm  
micaceous  
decayed  
Suprolite  
5%  
black and  
white  
decayed  
Suprolite  
yellow  
orange mottles

B C F

orange tan  
SiCLM

3.5' red Salm  
micaceous  
5%  
decayed  
Suprolite

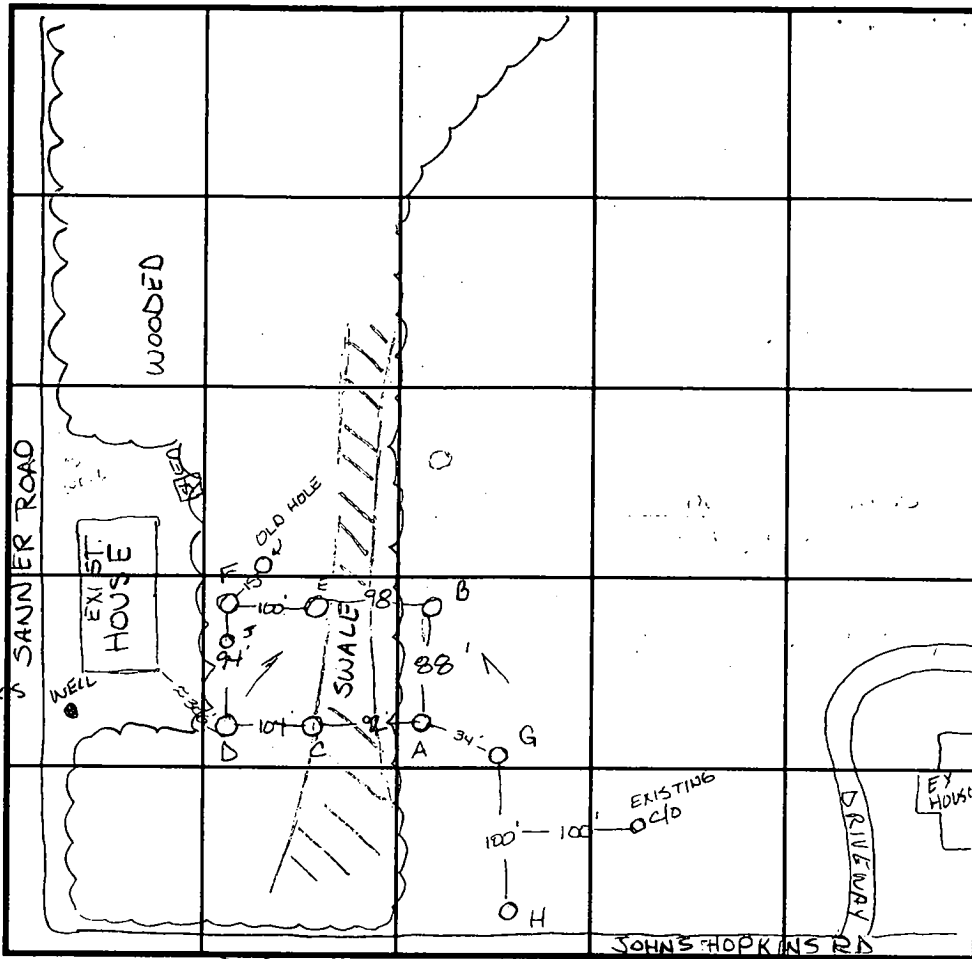
8' faint  
mottles  
of yellow  
and  
red

E F

dark  
brn  
gravelly  
SiCLM

1.5' dark  
red  
orange  
SaCLM

6' lgt  
beigh  
Salm  
micaceous



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

H

lgt tan  
plow  
layer

6' grey  
mottled  
CLM

2' dark  
red  
SaCLM  
100%  
quartzite

5.5' lgt yellow  
red  
SaSiLM

12'

J

orange  
brn  
SiCLM

5.0' red brn  
SiLM  
micaceous

9.5' yellow tan  
Salm  
grey granite like  
rock frags 5%

13.0'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
FD-12-95	A	3.5 VII'	10:40 <sup>30</sup>	10:45	10:45	10:51	6min
	B	4' VII	10:53 <sup>15</sup>	10:58	10:58	11:11	13min
	C	3.5 VII'	11:18 <sup>45</sup>	11:22	11:22	11:26 <sup>30</sup>	4 1/2 min
	D	3.5 VI2	11:13 <sup>15</sup>	11:14 <sup>15</sup>	11:14 <sup>15</sup>	11:16 <sup>30</sup>	2 1/4 min
	E	3.5 VII.5	10:56 <sup>30</sup>	11:00	11:00	11:08	8min
	F	4' VI2	11:10 <sup>30</sup>	11:12 <sup>15</sup>	11:12 <sup>15</sup>	11:15	2 3/4 min
	G	Visual	to 12'	- see profile			OK
	H	4.5 VI2'	11:32 <sup>15</sup>	11:33	11:33	11:34	1min
	H	repour	11:34 <sup>30</sup>	11:36	11:36	11:37 <sup>45</sup>	1 1/4 min
3-13-96	J	Visual	to 13.0'	- see profile			OK

REMARKS wet season testing - could not locate wells on properties across Johns Hopkins Rd

TYPE OF SOIL \_\_\_\_\_ TESTED BY Amy McMillen ALSO PRESENT \_\_\_\_\_

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT/BEDROOM \_\_\_\_\_



## HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer  
November 4, 1997

Mr. Perry Harley  
Harley Drilling and Pump Systems  
P.O. Box 160  
Walkersville, Maryland 21793

Mr. Austin Garver  
Keyser-Garver, Inc.  
9125 Bethel Road  
Frederick, Maryland 21701

RE: Well Permit Transfer  
Well Tag Number: HO-94-1235  
Well Tag Number: HO-94-1236  
Mauck Property-Lots 2 and 4  
Old Hopkins Road

*Notification of  
Permit transfer came  
Nov. 19, 1997 - Site Insp.  
showed well to have  
transferred tag #  
HO-94-1235  
ALM*

Gentlemen:

Permits for the above referenced wells were issued to Perry Harley; pump and grout inspections were requested by Austin Garver. I presume that means you have determined to transfer the permits from one driller to the other.

Specific notification and approval standards for permit transfer are specified by COMAR 26.04.04.06.G. Although this office was involved in separate discussion about the possibility of transfer with each of the drillers. Actual intent to transfer/accept was not communicated, nor was approval granted.

While I suspect there may have been strong pressures from the client to complete the transfer as rapidly as possible, the transfer should be accomplished in compliance with the regulation just the same as would be applicable for any other aspect of well construction.

If it is your intent to transfer these permits between drillers, please submit a note to that effect to Amy McMillen, the sanitarian who originally issued the permits so that approval to complete the transfer may be granted. If you have any questions regarding this matter, please contact me at the below address or by calling 410-313-2640.

Very truly yours,

Craig Williams, Program Director  
Water and Sewerage Program

CW:jr

cc: Amy McMillen  
Jared Spahn  
File

**B 1** 1862 SEQUENCE NO. (DP USE ONLY)

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

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL  
please print or type

STATE PERMIT NUMBER

70 fill in this form completely 79

**B 3** OWNER INFORMATION

Date Received (APA) 10 07 99

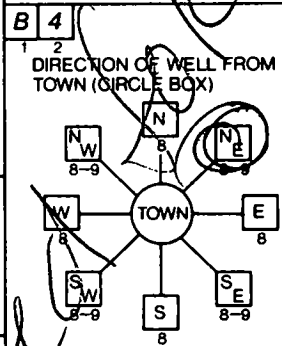
LAND DESIGN AND DEVELOPMENT  
15 Last Name 34 Owner First Name  
10805 HICKORY RIDGE RD  
36 Street or RFD 55  
COLUMBIA MD 21094  
57 Town 70 State 72 Zip 76

**B 3** LOCATION OF WELL

1 HOWARD  
2 8 COUNTY 21  
MAULCK PROPERTY  
23 SUBDIVISION 42  
SECTION 44 46 LOT 48 50  
FULKON  
52 NEAREST TOWN 71  
MILES FROM TOWN (enter 0 if in town) 1 1 M I  
73 76 77 78

**DRILLER INFORMATION** MSD/MGD/MWD

AUSTIN GARNER 095T  
77 License No. 80  
Kays - Brown Well Drilling Inc  
Firm Name  
9125-B Bell Rd Frederick, Md 21702  
Address  
Austin Garner 10/6/97  
Signature Date



610 HOPKINS RD  
11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 50 37  
DISTANCE FROM ROAD  
ENTER FT OR MI 1  
38 39

TAX MAP: 41 BLK: PARCEL 119

**B 2** WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 2  
8 12

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

USE FOR WATER (CIRCLE APPROPRIATE BOX)

HOME (SINGLE OR DOUBLE-HOUSEHOLD UNIT ONLY)

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)

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

TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

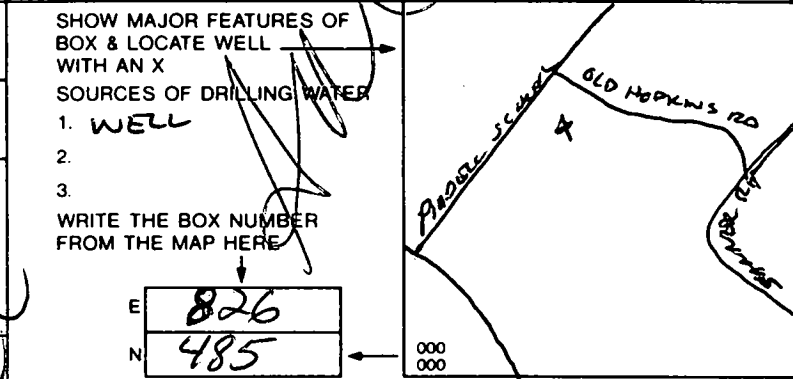
COUNTY NAME COUNTY NO.  
STATE SIGNATURE INSERT S 41  
DATE ISSUED  
43 48 CO SIGNATURE EXP. DATE  
NORTH GRID 50 000 55 EAST GRID 57 000 63

APPROXIMATE DEPTH OF WELL 400 FEET  
24 28

APPROXIMATE DIAMETER OF WELL 6 INCH  
NEAREST INCH

**METHOD OF DRILLING** (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN  
30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)  
37 CABLE REVERSE-ROTary Drive-POINT  
other



**REPLACEMENT OR DEEPEND WELLS** (CIRCLE APPROPRIATE BOX)

THIS WELL WILL NOT REPLACE AN EXISTING WELL

THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39  THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY - CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

THIS WELL WILL DEEPEEN AN EXISTING WELL

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

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

APPROP. PERMIT NUMBER 54 GAP 63

FORCE 67 68 WRITE INITIALS IN BOX PERMIT No. 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS NOTE = APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED =

**B 1** **3076** SEQUENCE NO. (DP USE ONLY)

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

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL  
please print or type

STATE PERMIT NUMBER  
**HO-94-1235**  
fill in this form completely

**Date Received (APA)**  
[ ] [ ] [ ] [ ] [ ] [ ]

**OWNER INFORMATION**

**15** Last Name **34** First Name  
**EVIICOM CITY LAND HOLDING**

**36** Street or RFD **65**  
**10805 AIRCORY R109E**

**57** Town **70** State **72** Zip **76**  
**COVINGBIA MD 21044**

**B 3** **LOCATION OF WELL**

**1** **2** **HOWARD** **21**  
COUNTY

**23** SUBDIVISION **42**  
**MAUCK BRO PROPERTY**

SECTION [ ] [ ] LOT **2** [ ] [ ]  
44 46 48 50

**52** NEAREST TOWN **71**  
**SCODGERSVILLE**

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

**DRILLER INFORMATION** *Austin Carver* MSD/MGD/MWD  
*Derry HARLEY* **143**

Driller's Name **37** License No. **80**

Firm Name **HARLEY drilling & pump systems**

Address **Box 160 WALKERSVILLE MD 21793**

Signature **Derry Harley** Date **6-30-97**

**B 4** **DIRECTION OF WELL FROM TOWN (CIRCLE BOX)**

**11** **219 HOPKINS RD** **30**  
NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
WEST [ ] EAST [ ]  
NORTH [ ] SOUTH [ ]

**34** **30** **37**  
DISTANCE FROM ROAD

ENTER FT OR MI **FO**  
38 39

TAX MAP: [ ] BLK: [ ] PARCEL: [ ]

**B 2** **WELL INFORMATION**

**1** APPROX. PUMPING RATE (GAL. PER MIN.) **3** [ ] [ ] [ ] [ ]  
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)

**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)

NOT TO BE FILLED IN BY DRILLER  
HEALTH DEPARTMENT APPROVAL

**Howard County** **A56512**  
COUNTY NAME COUNTY NO.

STATE SIGNATURE \_\_\_\_\_ INSERT S [ ]  
DATE ISSUED **07/18/97** **A M Mullen** **7/18/98**  
43 48 CO SIGNATURE EXP. DATE

NORTH GRID **486000** EAST GRID **826000**  
50 55 57 63

APPROXIMATE DEPTH OF WELL **200** [ ] [ ] FEET  
24 26

APPROXIMATE DIAMETER OF WELL **6 1/4"** NEAREST INCH

**METHOD OF DRILLING (circle one)**

**BORED** (or Augered) **JETTED** **Jetted & DRIVEN**

**30** AIR-ROTARY **AIR-PERCussion** **ROTARY** (Hydraulic Rotary)

**37** CABLE **REVERSE-ROTARY** **DRIVE-POINT**

other \_\_\_\_\_

**REPLACEMENT OR DEEPEMED 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.

**S** THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT-LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

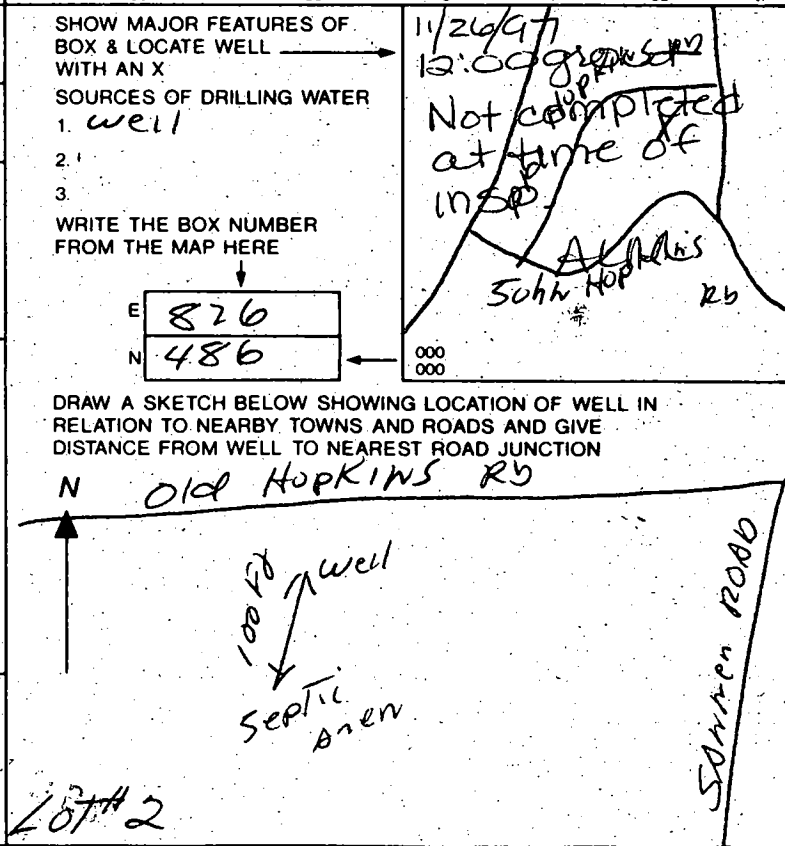
**D** THIS WELL WILL DEEPEAN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) **41** **HO-94-1099** **52**

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

APPROP. PERMIT NUMBER [ ] [ ] [ ] **G A P** [ ] [ ]  
54 63

FORCE **AM** WRITE INITIALS IN BOX **67 68** PERMIT No. **HO-94-1235**  
70 71 72 73 74 75 76 77 78 79



SEQUENCE NO. (DENV USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

(THIS REPORT IS TO BE PUNCHED IN COLS 3-7 ON ALL CARDS)

COUNTY NUMBER A56512

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

122497

112697

300

40-99-1235

OWNER ELLICOTT CITY LAND HOLDINGS

STREET OR RFD last name OLD HOPKINS RD first name

TOWN SGAGGSVILLE

SUBDIVISION MAUCK PROPERTY

SECTION

LOT 2

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

Check if water bearing

OVERBURDEN SANDSTONE HIT WATER AT 160' 1.66gpm SANDSTONE

0' 80' 80' 160' 160' 300'

✓

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 17 NO. OF ROUNDS 1398

GALLONS OF WATER 102

DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 73 ft.

CASING RECORD

casing types insert appropriate code below

ST CO PL OT STEEL CONCRETE PLASTIC OTHER

MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 73

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

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

DEPTH (nearest ft.) 1 10 2 71 3 309

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

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

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

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min. to nearest gal.) 1.6 METHOD USED TO MEASURE PUMPING RATE BUCKET/TIME WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING 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 YES NO 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) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE

IN HARD ROCK AREAS, IDENTIFY SPECIFICALLY WHERE SATURATED FRACTURES WERE OBSERVED. 160'

WELL HYDROFRACTURED yes Y no N

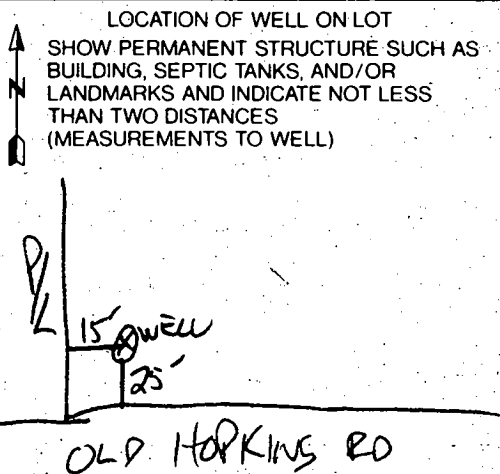
CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLER'S IDENT. NO. MSD 045 Austin Lawer

DRILLER'S SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) Robert Harley

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



COUNTY

17 Bays

FIELD DATA SHEET  
 HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-1235  
 Location of property (road) Old Hopkins Rd  
 Subdivision Mauck Property Lot 2 Block          Plat          Sec.           
 Well Driller Parry Harley KEYSER-GARVER Owner Ellicott City Land Holdings  
 Depth of well 300'  
 Distance of measuring point (M.P.) above ground 2'  
 Static water level (S.W.L.) below M.P. 26'

I. High rate pumping -- reservoir drawdown

Time pump started 10:00 Pumping rate 10  
 Total time 15' to reach pumping water level 97 ft. below M.P.

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

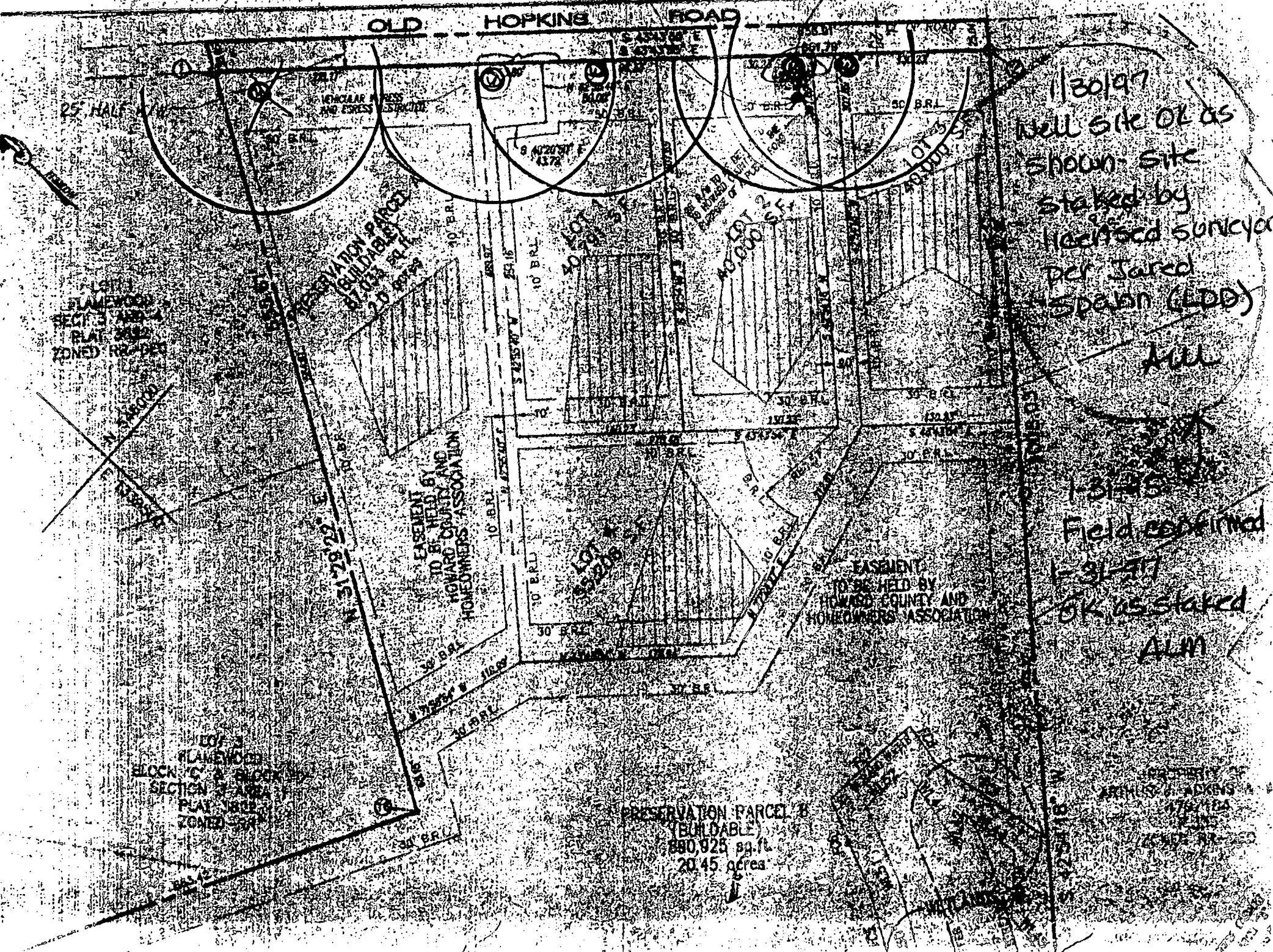
TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
10:00	26'	6		10
15	97	36		1.6
30	97	36		1.6
45	97	36		1.6
11:00	97	36		1.6
15	97	36		1.6
30	97	36		1.6
45	97	36		1.6
12:00	97	36		1.6
15	97	36		1.6
30	97	36		1.6
45	97	36		1.6
1:00	97	36		1.6
15	97	36		1.6
30	97	36		1.6
45	97	36		1.6
2:00	97	36		1.6
15	97	36		1.6
30	97	36		1.6
45	97	36		1.6
3:00	97	36		1.6
15	97	36		1.6
30	97	36		1.6
45	97	36		1.6
4:00	97	36		1.6
4:15	97	36		1.6

73 C 300 D 1 1/2 100 HV

7/17/97 200 well site  
OK ALM

6/6/97 - Well casing cracked so  
well abandoned ALM

OLD HOPKINS ROAD



1/30/97  
Well site OK as  
shown. Site  
staked by  
Hartford surveyor  
per Jared  
Spain (LDD)

ALM

1/31/97  
Field confirmed  
OK as staked

ALM

PRESERVATION PARCEL 2  
(BUILDABLE)  
880,925 sq. ft.  
20.45 acres

ARTHUR W. ADAMS  
770/124  
1215  
2000-11-20

\*\*\*\*\*  
 WATER WELL ABANDONMENT-SEALING REPORT FORM  
 \*\*\*\*\*

SUBMIT COPIES OF COMPLETED FORM TO:

- \* COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)
- \* WELL OWNER
- \* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 6-6-97 (month/day/year)

H 0 9 4 1 0 4 9

H 0 9 4 1 2 3 5

\* PERMIT NUMBER OF ABANDONED WELL (if any)

\* PERMIT NUMBER OF REPLACEMENT WELL

\* PERSON ABANDONING WELL: Perry HARLEY

WELL DRILLERS LICENSE NUMBER: MSD 143

\* OWNER'S NAME: ELICOTT CITY LAND HOLDING CO.

\* WELL LOCATION:

COUNTY: HOWARD  
 NEAREST TOWN: SCAGGSVILLE  
 TAX MAP \_\_\_\_\_ BLOCK \_\_\_\_\_ PARCEL \_\_\_\_\_  
 SUBDIVISION: MAUCK PROPERTY  
 SECTION: - LOT: 2

	X
0 0 0	
0 0 0	

MARYLAND GRID COORDINATES

E 826  
 BOX NUMBER  
 N 486

SHOW WELL LOCATION BY X WITHIN BOX

\* TYPE OF WELL BEING ABANDONED:

- DRILLED
- BORED/AUGURED
- OTHER (specify) \_\_\_\_\_
- JETTED
- HAND DUG

\* USE CODE:

- DOMESTIC
- IRRIGATION
- TEST/OBSERVATION
- MUNICIPAL/PUBLIC
- INDUSTRIAL

\* TYPE OF CASING:

- STEEL
- CONCRETE
- PLASTIC
- OTHER (specify) \_\_\_\_\_

\* SIZE OF CASING: 6 1/4" INCHES IN DIAMETER

\* DEPTH OF WELL: 200 FEET DEEP

\* WAS ANY CASING REMOVED?  YES \_\_\_\_\_ NO  
 if yes, length removed, in feet: 2 Ft

\* WAS CASING RIPPED OR PERFORATED? \_\_\_\_\_ YES \_\_\_\_\_ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
STONE CUTTINGS + PORTLAND TYPE II 14 BAGS	200	SURFACE

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN: Perry Harley LICENSE # MSD 143 DATE \_\_\_\_\_

3-26-97

A visual inspection of the interior of the wells on Lots 2 and 4 was performed by Easterday well drilling by placing a camera down the length of the well and video taping it. The following observations were made:

Ho-94-1049 Lot 2 - The casing was cracked for approximately the last 40 feet of casing.

Ho-94-1050 Lot 4 - The open hole portion of the well had caved in.

Also present was the property owner, Mrs. Mauck, Jared Spahn of Land Design & Development, Craig William and Kim Maiste of Howard County Health Department.

Amy Mc Millen

*Amy Mc Miller*

LOT 2 <sup>WELL</sup> ABANDONED w/GROUT + CUTTINGS MR 6/6/97  
DRILLER CONFIRMS THAT CONTACT W/H.D.  
WILL BE MADE PRIOR TO RE-DRILLING;  
DRILLER CONFIRMS PAB REPORT COMING

6/17/97 New well to be drilled 10' downhill from abandoned well ~~NEW~~ New well permit pending ALM

**B 1** 3057 SEQUENCE NO. (DP USE ONLY) STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please print or type STATE PERMIT NUMBER 40-94-1049  
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS) fill in this form completely

**B 2** OWNER INFORMATION  
 Date Received (APA) 012997  
 15 Last Name 21 First Name 34  
 36 Street or RFD 55  
 57 Town 70 State 72 Zip 76  
 EKKICOFFCITYLAND HOLDING  
 10805 W EYBORN RIDGE  
 COLLEGE PARK MD 20747

**B 3** LOCATION OF WELL  
 1 2 HOWARD  
 8 COUNTY 21  
 MALICK PROPERTY  
 23 SUBDIVISION 42  
 SECTION 44 46 LOT 2 48 50  
 52 NEAREST TOWN SEABRIDEVILLE 71  
 MILES FROM TOWN (enter 0 if in town) 2 73 76 77 78 MI

**DRILLER INFORMATION** MSD/MGD/MWD  
 WAYNE E HARLEY 043  
 Driller's Name 77 License No. 80  
 HARLEY DRILLING & PUMP SYSTEMS  
 Firm Name  
 P.O. BOX 160 WALKERSVILLE, MD  
 Address  
 Wayne E Harley 21753  
 Signature Date 1-22-96

**B 4** DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  
 TOWN  
 N W 8-9 N E 8-9  
 W 8 S E 8  
 S W 8-9 S 8-9  
 NEAR WHAT ROAD 11 OLD HOPKINS ROAD 30  
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
 34 30 37  
 DISTANCE FROM ROAD  
 ENTER FT OR MI F 38 39  
 TAX MAP: BLK: PARCEL

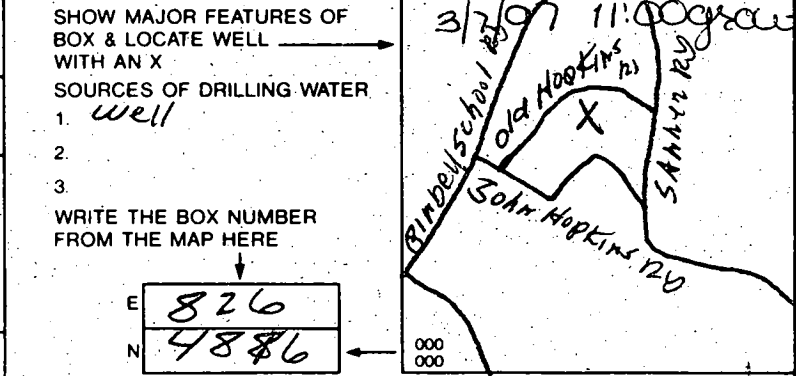
**B 2** WELL INFORMATION  
 APPROX. PUMPING RATE (GAL PER MIN.) 3 8 12  
 AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY) 500 14 20

**USE FOR WATER** (CIRCLE APPROPRIATE BOX)  
 HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)  
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)  
 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)  
 PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)  
 TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

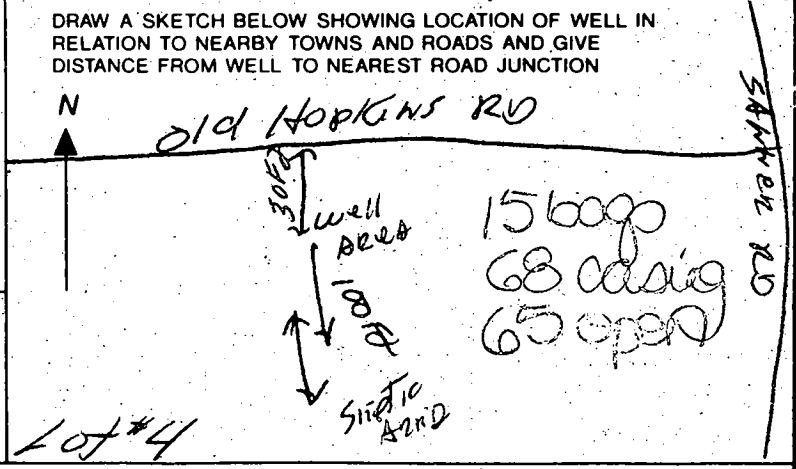
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL  
 Howard Co A56512  
 COUNTY NAME COUNTY NO.  
 STATE SIGNATURE DATE ISSUED INSERT S  
 013097 A. McMiller 1/30/98  
 NORTH GRID 48 CO SIGNATURE EAST GRID 57  
 43 50 55 57 63  
 786000 0826000

APPROXIMATE DEPTH OF WELL 200 24 28 FEET  
 APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

**METHOD OF DRILLING** (circle one)  
 BORED (or Augered) JETTED Jetted & DRIVEN  
 30 AIR-ROTARY AIR-PERCUSSION ROTARY (Hydraulic Rotary)  
 37 CABLE REVERSE-ROTARY DRIVE-POINT  
 other



**REPLACEMENT OR DEEPEMED WELLS** (CIRCLE APPROPRIATE BOX)  
 THIS WELL WILL NOT REPLACE AN EXISTING WELL  
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  
 39  THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS  
 THIS WELL WILL DEEPEMED AN EXISTING WELL  
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41



**Not to be filled in by driller (OEP USE ONLY)**  
 APPROP. PERMIT NUMBER GAP  
 FORCE AM WRITE INITIALS IN BOX PERMIT No. 40-94-1049  
 67 68 70 71 72 73 74 75 76 77 78 79

**SPECIAL CONDITIONS** NOTE = APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED =

C 1 **8568** SEQUENCE NO. (MDE 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 NUMBER **A56512**

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-8 ON ALL CARDS)

ST/CO USE ONLY  
DATE Received  
MM DD YY  
8 13

DATE WELL COMPLETED  
MM DD YY  
**3 7 97**

Depth of Well  
22 **200** 26  
(TO NEAREST FOOT)

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"  
**HO-94-1049**  
28 29 30 31 32 33 34 35 36 37

OWNER **Ellicott City Land Holding**  
STREET OR RFD **Old Hopkins Rd** first name TOWN **Seagroveville**  
SUBDIVISION **Mauck Property** SECTION LOT **2**

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		check if water bearing
	FROM	TO	
TOP SOIL	0	5	
Bronshell	5	15	
MILD ROCK	16	62	
Blue Rock	63	200	✓

*Got water at 95'*

*ABANDONED*

GROUTING RECORD yes no  
WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**  
44 44  
TYPE OF GROUTING MATERIAL (Circle one)  
CEMENT **CM** BENTONITE CLAY **BC**  
NO. OF BAGS <sup>45 46</sup> **15** NO. OF BOUNDS <sup>45 46</sup> **110**  
GALLONS OF WATER **90**  
DEPTH OF GROUT SEAL (to nearest foot)  
from **0** ft. to **66** ft.  
48 TOP 52 54 BOTTOM 58  
(enter 0 if from surface)

CASING RECORD  
casing types insert appropriate code below  
**ST** STEEL **CO** CONCRETE  
**PL** PLASTIC **OT** OTHER  
Nominal diameter top (main) casing (nearest inch): **64**  
Total depth of main casing (nearest foot): **68**  
60 61 63 64 66 70

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

SCREEN RECORD  
screen type of open hole insert appropriate code below  
**ST** STEEL **BR** BRASS **HO** OPEN HOLE  
**PL** PLASTIC **OT** OTHER

DEPTH (nearest ft.)  
**HO 67 200**  
E 8 9 11 15 17 21  
A C 2 23 24 26 30 32 36  
S C 3 38 39 41 45 47 51  
R E  
E N

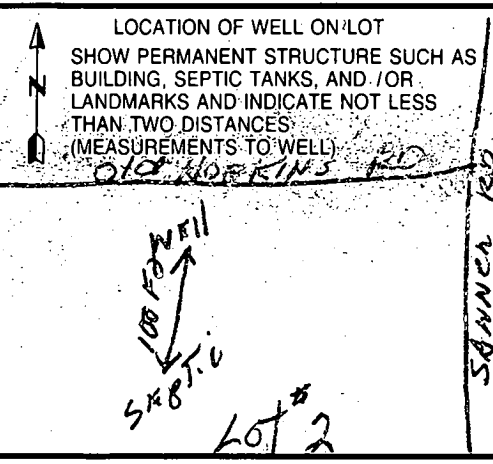
SLOT SIZE 1 2 3  
DIAMETER OF SCREEN (NEAREST INCH)  
56 60  
from to

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)  
T (E.R.O.S.) W Q  
70 72 74 75 76  
TELESCOPE CASING LOG INDICATOR OTHER DATA

**C 3**  
PUMPING TEST  
HOURS PUMPED (nearest hour) **3.**  
8 9  
PUMPING RATE (gal. per min.) **5.**  
11 15  
METHOD USED TO MEASURE PUMPING RATE **Submersible**  
WATER LEVEL (distance from land surface)  
BEFORE PUMPING **22** ft.  
17 20  
WHEN PUMPING **70** ft.  
22 25  
TYPE OF PUMP USED (for test)  
**A** air **P** piston **T** turbine  
27 27 27  
**C** centrifugal **R** rotary **O** other (describe below)  
27 27 27  
**J** jet **S** submersible  
27 27

PUMP INSTALLED  
DRILLER WILL INSTALL PUMP (CIRCLE) (YES or NO) YES **NO**  
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.  
TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 29  
CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35  
PUMP HORSE POWER 37 41  
PUMP COLUMN LENGTH (nearest ft.) 43 47  
CASING HEIGHT (circle appropriate box and enter casing height)  
**+** above } LAND SURFACE  
49 }  
**-** below } **2.** (nearest foot)  
49 50 51



NUMBER OF UNSUCCESSFUL WELLS: **0**

WELL HYDROFRACTURED yes **Y** no **N**

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 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

DRILLERS LIC. NO. **M 5 D 043**  
**Walter E. Horley**  
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. **M D**

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

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

Well Permit No. HO - 94-1049  
 Location of property (road) Old Hopkins Rd  
 Subdivision Mauck Property Lot 2 Block \_\_\_\_\_ Plat \_\_\_\_\_ Sec. \_\_\_\_\_  
 Well Driller Wayne Harley Owner Ellicott City Land Holdings

Depth of well 200 FT  
 Distance of measuring point (M.P.) above ground 22 FT  
 Static water level (S.W.L.) below M.P. 22 FT

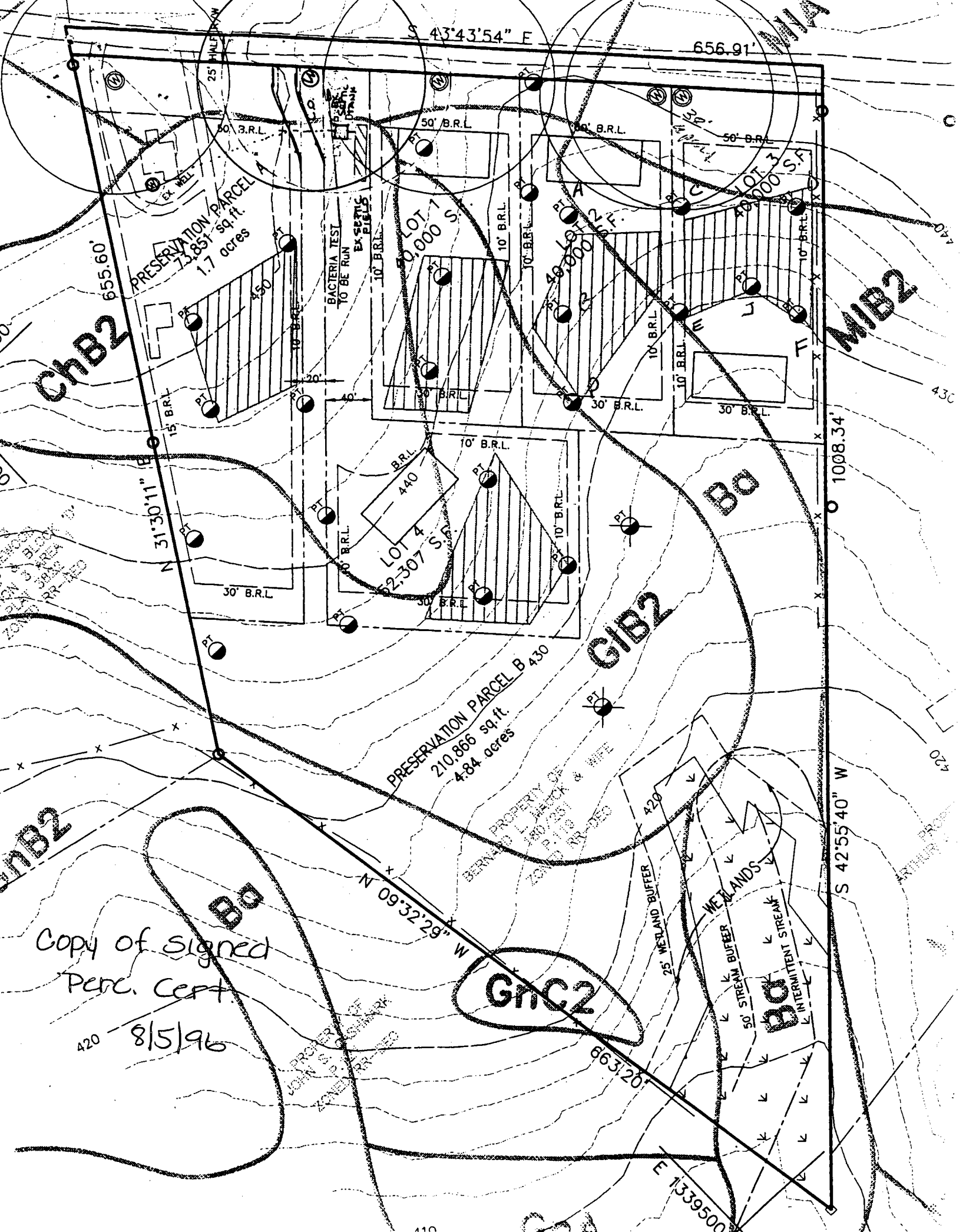
**I. High rate pumping -- reservoir drawdown**

Time pump started 11:00 AM Pumping rate 15 gpm  
 Total time 15 min to reach pumping water level 70 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) gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
11:00	22 FT	20 SEC		15 gpm
11:15	70 FT	60 SEC		5 gpm
11:30	70 FT	60 SEC		5 gpm
11:45	70 FT	60 SEC		5 gpm
12:00	70 FT	60 SEC		5 gpm
12:15	70 FT	60 SEC		5 gpm
12:30	70 FT	60 SEC		5 gpm
12:45	70 FT	60 SEC		5 gpm
1:00	70 FT	60 SEC		5 gpm
1:15	70 FT	60 SEC		5 gpm
1:30	70 FT	60 SEC		5 gpm
1:45	70 FT	60 SEC		5 gpm
2:00	70 FT	60 SEC		5 gpm
2:15	70 FT	60 SEC		5 gpm
2:30	70 FT	60 SEC		5 gpm





**ChB2**

**MIB2**

**GIB2**

**BB**

**MB2**

**GnC2**

**BB**

Copy of signed  
Perc. Cert

8/5/96

PRESERVATION PARCEL A  
73,851 sq. ft.  
1.7 acres

PRESERVATION PARCEL B 430  
210,866 sq. ft.  
4.84 acres

LOT 1  
10,000 S.F.

LOT 2  
10,000 S.F.

LOT 3  
10,000 S.F.

LOT 4  
2,307 S.F.

BACTERIA TEST  
TO BE RUN  
EX. SEPTIC  
FIELD

25' WETLAND BUFFER

50' STREAM BUFFER

INTERMITTENT STREAM

WETLANDS

S 43°43'54" E

656.91'

N 31°30'11" E

1008.34'

N 09°32'29" W

S 42°55'40" W

E 1339500'

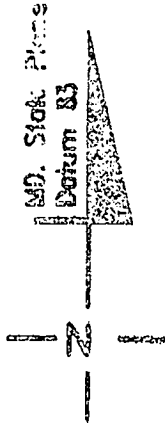
663.20'

PROPERTY OF  
JOHN P. TRACY  
2000 S. 1000 W. & WIFE  
DAVID TRACY & WIFE  
TRACY



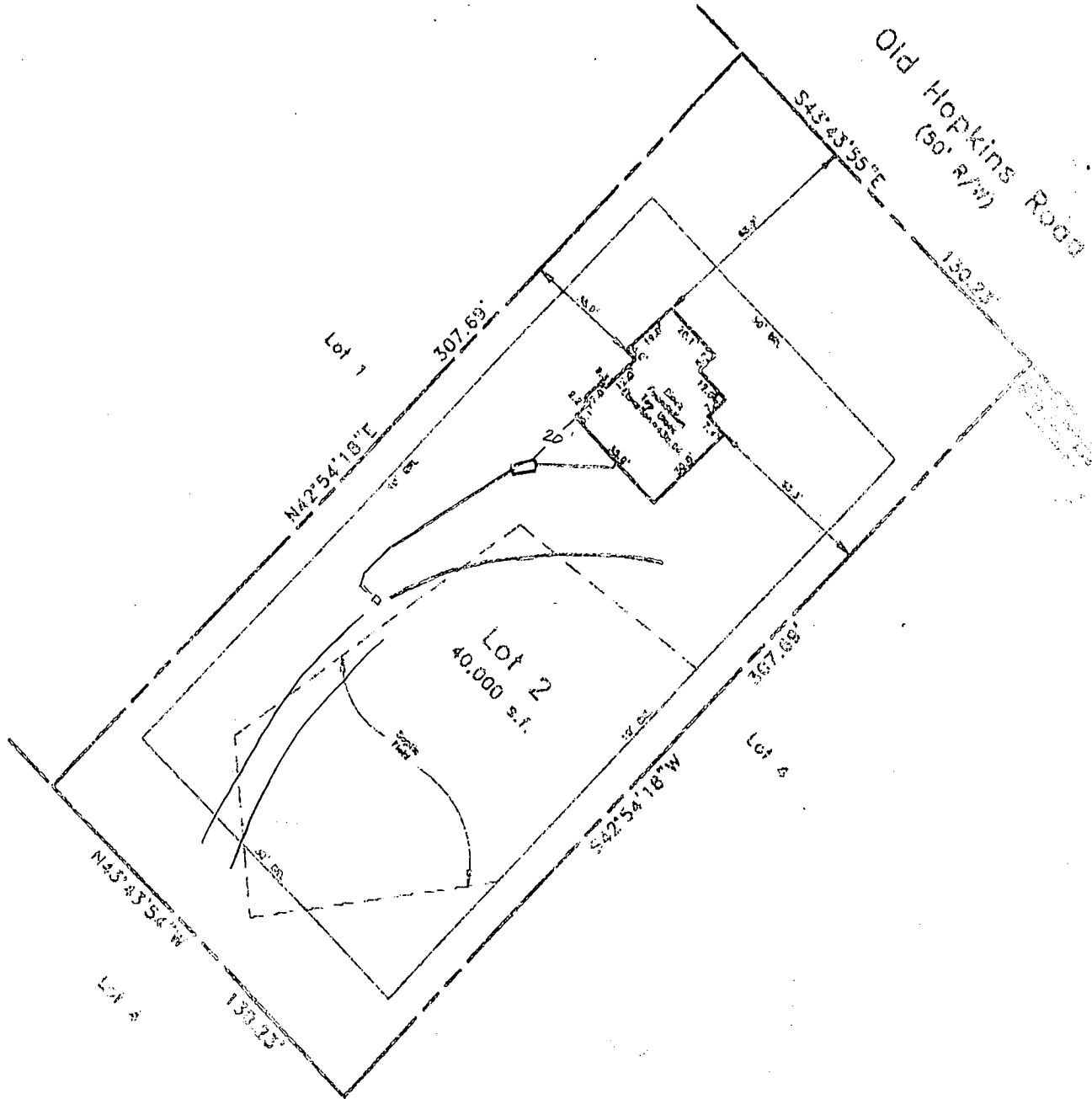
Notes:

1. This survey is for house location purposes only and is not to be used for determining the location of property lines or construction of additional improvements on the property.
2. The existence of property corner markers is not guaranteed by this survey, unless the location and description of specific corner markers are shown.
3. This survey was prepared without the benefit of a title report, which may reveal additional easements, rights-of-way or restrictions, which affect the property.
4. This property is situated in Zone C, as shown on FEMA Flood Insurance Rate Map, Panel No. 245208 0038 B, Howard County, Maryland, dated 12/4/88.



**House Location Survey**  
**11231 Old Hopkins Road**  
**Mauk Property**

Lot 2  
 Plat No. 12730  
 (5th) Election District  
 Howard County, Maryland  
 Scale 1" = 50' April, 1998

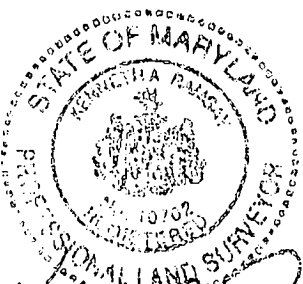


**SURVEYOR'S CERTIFICATE:**

I HEREBY CERTIFY THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGMENT AND BELIEF THE LOCATION OF IMPROVEMENTS SHOWN HEREON WAS ESTABLISHED BY A PHYSICAL SURVEY USING ACCEPTED FIELD AND OFFICE PROCEDURES AND THAT, UNLESS OTHERWISE SHOWN, THERE ARE NO VISIBLE ENCROACHMENTS.

Foundation Wall Check 4/1/98

BRL - building restriction line  
 PUE - public utility easement  
 I.P.S. - iron pin set



**GREENMAN - PEDERSEN, INC.**

**GPI**

14502 GREENVIEW DRIVE, SUITE 100, LACHEL, MD. 20708  
 ENGINEERS, SURVEYORS, PLANNERS, CONSTRUCTION ENGINEERS + INSPECTORS  
 (301) 470-2772, (410) 830-8058, FAX (301) 430-2849

4-1-98