

8/28/91 ANYTIME

03-316 386

PERMIT

File

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

461-9933

INDEX - TIME EXPIRED FOR

F.C.O.P. COMPLIANCE

INDEXED

9/8/93 C. Williams / C.B.

P 47279

A 39512

DISTRICT 3rd

DATE 7/5/91

DATE SYSTEM APPROVED 8/28/91

INSPECTOR C.B.

Arnold Backhoe & Septic Services, Inc.

IS PERMITTED TO INSTALL ☒ ALTER

ADDRESS P. O. Box 15, Woodbine, Maryland 21797

PHONE 795-7873

SUBDIVISION Rover Meadows LOT 11 ROAD 13950 Rover Mill Road

PROPERTY OWNER George Harman

ADDRESS

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM 720 sq. ft. for 4 bedrooms.

LINEAR FEET OF TRENCH REQUIRED 240 Linear feet for 4 bedrooms.

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 - Place distribution box 200' from the front lot line and 110' from the right (171.48') lot line. Run trenches on contour toward Old Rover Road. Make the first three trenches only 50' long to avoid the well. Trenches must be 100' from the well.

NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK 6/19/91 R.H.

8/28/91 to try to get it 2-120 trenches in dist. box, same when (use up) area fully) 77

PLANS APPROVED BY Raymond Hodges cm DATE 6/3/91

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS NOT ACCEPTABLE.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

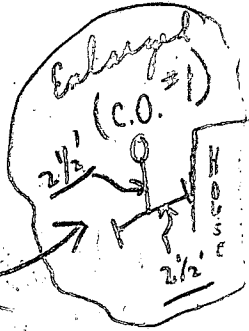
NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

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

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT



← ROVER MILL ROAD C.O.#1 / S.T. →

DISTRIBUTION BOX LEVEL OK (Baffles in place)

DRAIN FIELD/TITLE DEPTH 5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 9 FT.

EFFECTIVE GRAVEL DEPTH: 3 FT. TOTAL LENGTH: 200 FT.

DRYWALL INSIDE DIAMETER FT. EFFECTIVE DEPTH BELOW INLET FT.

late PM of 11-5-11 17.2

(Field said in explanation) / CBS

Noises from shift under construction.

DATE SYSTEM APPROVED 11/19/11 INSPECTOR [Signature]

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was significantly higher than the number of incorrect responses in all cases. Error bars represent the standard error of the mean.

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 39512

P _____

DISTRICT 3d

DATE April 20, 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 John A. Boender George Harman
ADDRESS Rover Mill Road PHONE 465-7777

PROPERTY LOCATION:

SUBDIVISION Mc Cormick Property LOT NO. 10 11 on Final
ROAD AND DESCRIPTION On the East side of Rover Mill Road, at the intersection of
Old Rover Road (13950 Rover Mill Road)
SIZE OF LOT 3 Acre Minimum TYPE BLDG. 3-4
(NUMBER OF BEDROOMS)

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.

Dennis M. Ryols

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 5-27-87 Due Satisfactory - hold for PERM. SIGN 6-29-87 NO
ADJUSTMENT IN PERC AREA PERMITTED DOWNSLOPE S.A.

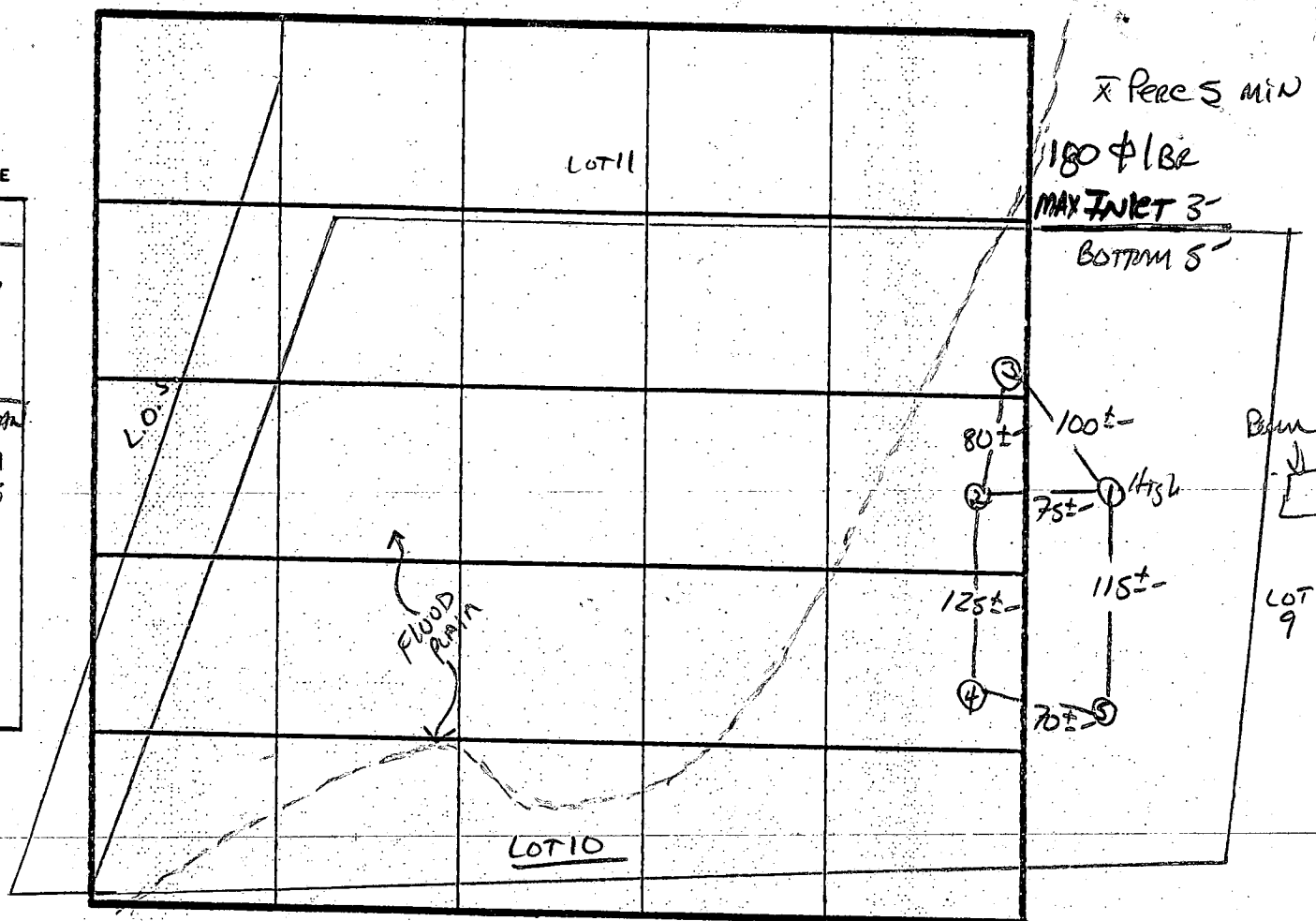
BLDG. PERMIT SIGNED

AND RETURNED 6/13/91

Serial # 38019 - SFP - y Backhorn

THIS IS NOT A PERMIT

12"
 9"
 SOIL PROFILE
 AP
 Yellow Bk Silty CLAY loam 10-15% frags
 Brown-Tan Silty loam micaceous 15-20% frags
 HARD BOTTOM



DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5/27/67	1 S	3.5'	12:21	12:23	12:23	12:29	6 min
	1 M	6.5'	12:21	12:23	12:23	12:28	5 min
	1 V	10'	HARD BOTTOM - UNIFORM SOIL				below 2.5-3'
	2 S	3.5'	12:24	12:26	12:26	12:30	4 min
	2 V	10'	HARD BOTTOM - UNIFORM SOIL				below 3'
	3 V	11'	UNIFORM SOIL				below 3' HARD BOTTOM
	4 S	3.5'	12:28	12:29	12:29	12:32	3 min
	4 V	9.5'	HARD BOTTOM - UNIFORM				below 3'
	5 S	4'	12:31	12:33	12:33	12:36	3 min
	5 V	9'	UNIFORM SOIL				below 3'

REMARKS: Holes Per Plat - Shallow Syst only

TYPE OF SOIL

WELL DATA

EX. GR. 512.00
FIN. GR. 512.00

INV. OF SEWER FROM HSE. = 504.70

SEPTIC TANK DATA

EX. GR. 506.00
FIN. GR. 506.00
INV. IN 504.20
INV. OUT 502.90

DISTRIBUTION BOX

EX. GR. 502.00 FIN. GR. 502.00
INV. IN 499.20
INV. OUT 499.00

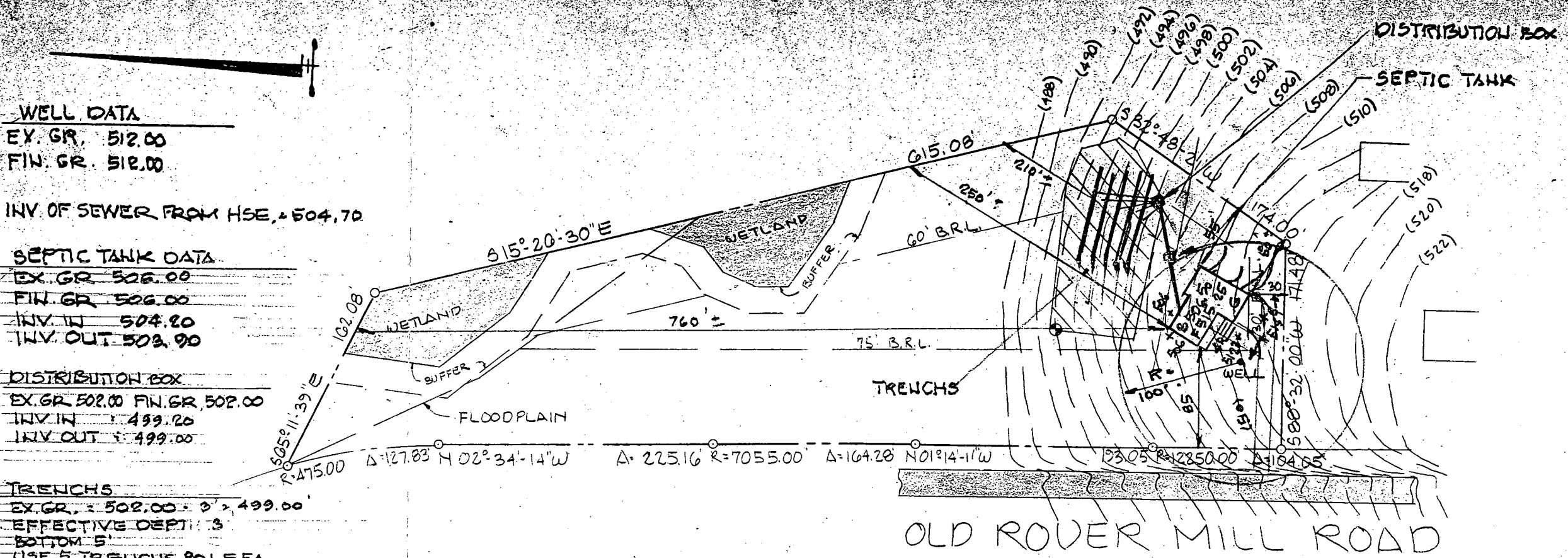
TRENCHES

EX. GR. = 502.00 - 3' = 499.00
EFFECTIVE DEPT. 3'
BOTTOM 5'
USE 5 TRENCHES 80 L.F. EA.
5' DEEP - LAST 2' FILLED WITH STONE

4 BED ROOM DWELL.

PREPARED BY:

JOHN C. MELLEMA SR., INC.
LAND SURVEYORS
5313 EAST DRIVE - BALTO. MD. 21227



SITE PLAN

LOT 11 ROVER MEADOWS
HOWARD CO., MD. SCALE: 1"=100'

6/13/91
REVISED PLANS OK
RH

8/28/91/LATE

8128
Final
OK
C.B.

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

461-9933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION
LINE

New Installation ☒
Replacement ☐

Receipt # 47361
Date 7.30.91

Name of Installer ALL QUALITY PLUMBING

Telephone (301) 432-7247

License Number 12250

Certified Well Pump Installer ☐ Well Driller ☐ Registered Plumber ☒

Name of Property Owner GEORGE/BRENDA HARMAN

Telephone (301) 850-4187

Subdivision ROVER MEADOWS Lot # 11

Well Tag # HO-88-1675

Site Address 13950 ROVER MILL ROAD
WEST FRIENDSHIP, MD. 21794

Pump

- Type
 - Deep well jet ☐
 - Shallow well jet ☐
 - Submersible ☒
- Make GOULDS
- Model # SES05422
- Capacity 7 GPM
- Pump exceeds well capacity Yes ☐ No ☒
- If Yes, is low pressure cutoff switch installed? Yes ☐ No ☒
- What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors ☒ Cable guards ☐ Other ☐

Motor

- Horsepower 1/2
- RPM ☐
- Voltage —
 - 110 ☐
 - 220 ☒

Pitless Adapter

- Make CAMPBELL
- Model # ☐
- Depth 48"

Tank

- Capacity V.60
- Pressure relief valve? YES

Piping

- Type 160 PSI BLK. POLY.
- Size 1"
- NSF and/or BOCA Code approved ☒
- Depth of supply line 48"

Well data

- Depth 185 ft.
- Yield 10 GPM
- Static water level 36'6" ft.
- Will water supply be disinfected by installer? YES

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

All information given above is true to the best of my knowledge.

Signature of Applicant: Richard F. Morley

Date: 7.30.91

Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.

B 1 0060	SEQUENCE NO. (DP USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER H0-88-1675 fill in this form completely
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		B 3 LOCATION OF WELL 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 HOWARD 8 COUNTY ROVER MEADOWS 23 SUBDIVISION SECTION 44 46 LOT 11 50 GLENWOOD 52 NEAREST TOWN MILES FROM TOWN (enter 0 if in town) 2 1/2 MI 73 76 77 78	
Date Received (APA) 030591		OWNER INFORMATION 15 Last Name 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 ISAAC BRIHW Owner First Name 13900 ROVER MILL RD Street or RFD Westfield MD 21794 Town 70 State 72 Zip 76	
DRILLER INFORMATION Driller's Name <u>Joseph L. Wayne</u> 77 License No. 80 238 Firm Name <u>Joseph L. Wayne WELL DRILLING</u> Address <u>5512 Ridge Rd. Mt. Airy, Md. 21771</u> Signature <u>Joseph L. Wayne</u> Date <u>3/5/91</u>		B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 	
B 2 WELL INFORMATION 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20		11 Rover mill Pond 30 NEAR WHAT ROAD ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH ☒ N ☐ NE ☐ E ☐ SE ☐ S ☐ SW ☐ W ☐ NW WEST EAST SOUTH 34 40 37 DISTANCE FROM ROAD ENTER FT OR MI F T 38 39	
USE FOR WATER (CIRCLE APPROPRIATE BOX) ☒ 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 County Name <u>Howard</u> County No. <u>A39512</u> STATE SIGNATURE <u>Mark E. Riffin</u> DATE ISSUED <u>9/12/91</u> 43 48 CO SIGNATURE EXP. DATE NORTH GRID 534000 EAST GRID 0801000 50 55 57 63	
APPROXIMATE DEPTH OF WELL 260 FEET 24 28		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. WELL 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE E 80X1 N 53X4 000 000	
APPROXIMATE DIAMETER OF WELL <u>6</u> INCH NEAREST INCH		9-30 3/22/91 GROUT 13 BAGS NOT OBS'D 45' OPEN MR 63' CASING 3/22/91 2 1/2' CASING A.G. 1 BAG OK	
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 _____		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 	
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 ☐ THIS WELL WILL DEEPEMED AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52		Not to be filled in by driller (OEP USE ONLY) APPROP. PERMIT NUMBER _____ GAP _____ 54 63 FORCE <u>MR</u> WRITE INITIALS IN BOX PERMIT No. <u>H0-88-1675</u> 67 68 70 71 72 73 74 75 76 77 78 79	
SPECIAL CONDITIONS		COUNTY <u>Glenwood</u>	

C1 4539 SEQUENCE NO. (DENV USE ONLY)
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

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

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

COUNTY
NUMBER A 39512

ST/CO USE ONLY
DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO.
FROM "PERMIT TO DRILL WELL"

8 13

15 20

22 26
(TO NEAREST FOOT)

28 29 30 31 32 33 34 35 36 37

OWNER ISAAC BRIAN
last name first name
STREET OR RFD ROVER MILL RD TOWN Glenwood
SUBDIVISION ROVER MEADOWS SECTION LOT 11

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

SAND 0 58
Gravelly mica rock 58 185

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box)

yes no
Y N

TYPE OF GROUTING MATERIAL

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 13 NO. OF POUNDS 1222

GALLONS OF WATER 78

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 45 ft.
(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below

ST CO
STEEL CONCRETE
PL OT
PLASTIC OTHER

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

ST 6 63

OTHER CASING (if used)

diameter depth (feet) inch from to

EACH CASING

screen type or open hole

SCREEN RECORD

insert appropriate code below

ST BR HO
STEEL BRASS OPEN
PL BRONZE HOLE
PLASTIC OTHER

C2

DEPTH (nearest ft.)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51

SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH)

from to

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.)

70 72

TELESCOPE CASING LOG INDICATOR OTHER DATA

C3

PUMPING TEST

HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min. to nearest gal.) 10

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 36

WHEN PUMPING 37

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

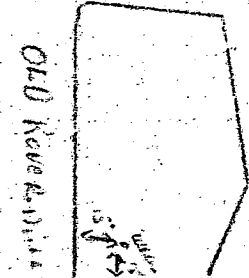
PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height)

LAND SURFACE 3 (nearest foot)

LOCATION OF WELL ON LOT

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



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 IDENT. NO. 238

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

COUNTY