04-346580

9/15/89

PERMIT

WPI

P 43112

A 38362

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH* DISTRICT 4th

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

INDEXED

DATE 11/28/88

DATE SYSTEM APPROVED 9/15/89

INSPECTOR M. Riffin

~~Frederick Plumbing~~ Frall Septic IS PERMITTED TO INSTALL X ALTER ____

ADDRESS ____ PHONE 663-1475

SUBDIVISION Glenwood Springs ROAD 2816 Saddlebred Court LOT 15

PROPERTY OWNER Jerry Booth

ADDRESS ____

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES X NO ____

SEPTIC TANK CAPACITY 2000 GALLONS NUMBER OF BEDROOMS 4

TRENCHES - 220 sq. ft. per bedroom with garbage disposal. Trench to be 3 feet wide. Inlet 4 feet below original grade. Bottom maximum depth 6 feet below original grade. Effective area begins at 4 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Place the distribution box 210 feet down the left (588.15') lot line and 70 feet off the same lot line as seen when facing the lot from Saddlebred Court. Run trenches on contour toward the left rear corner.

NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. ok(cw)

PLANS APPROVED BY Sid Abel DATE 5/13/88

COVER NO WORK UNTIL INSPECTED AND APPROVED

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

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS

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

NOTE: IF DEEP 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 40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

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

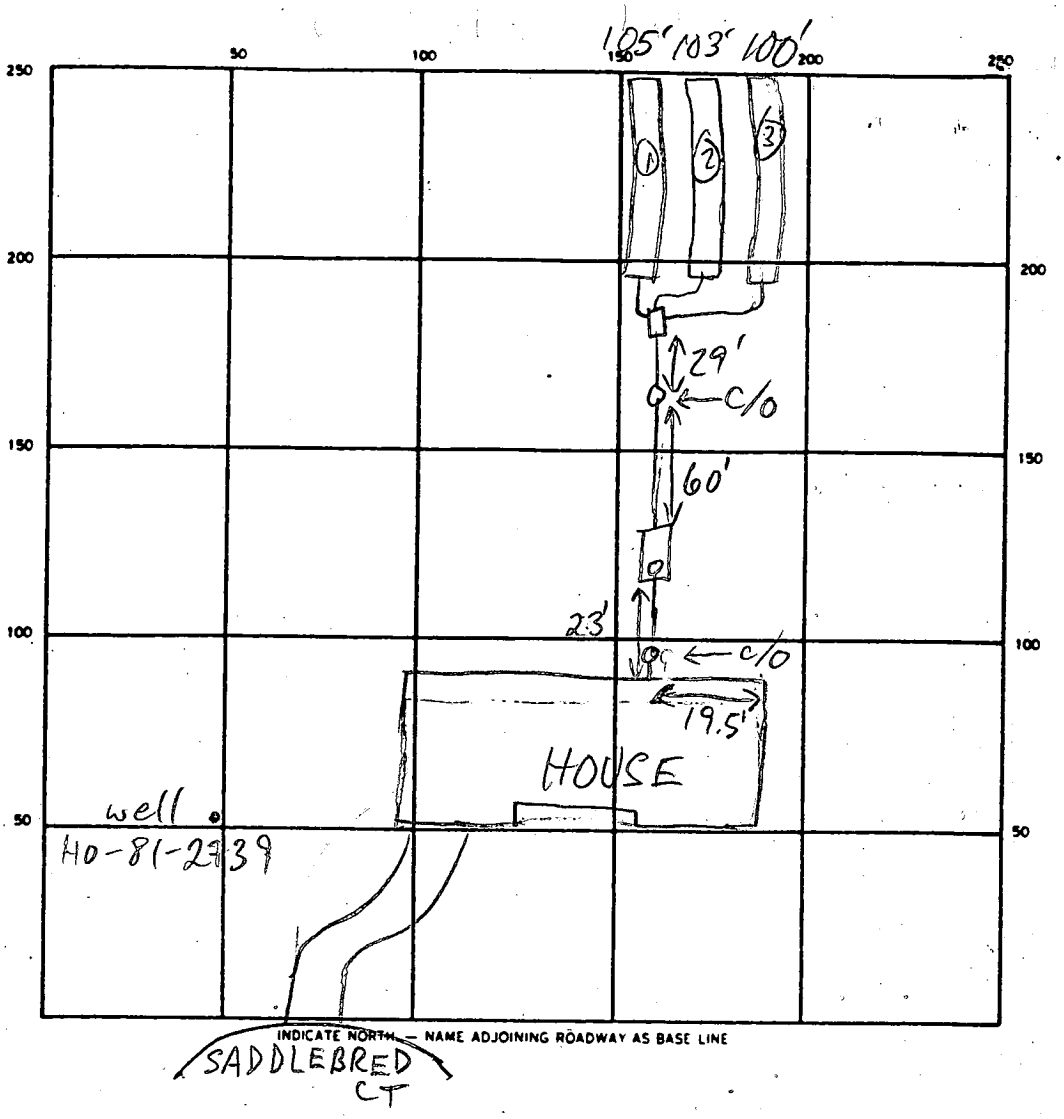
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

A 38362

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

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

HD-260



SEPTIC TANK. LEVEL 2000 GAL CLEANOUTS (2) INLINE-OK S.T.-OK

DISTRIBUTION BOX. LEVEL OK BAFFLE IN

DRAIN FIELD/TILE FIELD. DEPTH 6 FT. TRENCH WIDTH 3 FT. INLET DEPTH 4 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH (1) 105' (2) 103' (3) 100' } 300'± FT

NUMBER OF TRENCHES 3 ~~ONE SIDEWALL~~/BOTTOM AREA 900 SQ FT.

DRYWELL INSIDE DIAMETER — FT EFFECTIVE DEPTH BELOW INLET — FT.

ABSORBENT AREA — SQ. FT.

REMARKS 9/15/89 TRENCHES (1) & (2) COMPLETE, TRENCH (3) DUG TO 65"; ADD 35" ADD'L & COVER; (SOME MINOR DIFFICULTY W/ROCK IN SOME AREAS - NO MAJOR PROBLEMS) MR

DATE SYSTEM APPROVED 9/15/89 INSPECTOR M. Riffin

APPLICATION

A 38362

PERCOLATION TESTING

P _____

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

DISTRICT _____

DATE 10-14-86

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 Jerry Booth

ADDRESS _____ PHONE _____

PROSPECTIVE BUYER Ronald Carter

ADDRESS 8388 Court Ave., Elicott City, Md. 21043 PHONE 461-2855

PROPERTY LOCATION:

SUBDIVISION Hakes Property LOT NO. FIFTEEN Revised 4/29/87

ROAD AND DESCRIPTION ~~Hobbs Road~~ 2816 Saddlebred Ct.

TAX MAP 14 PARCEL # 83,87,202

SIZE OF LOT 3+ acres TYPE BLDG. SFD
(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. Ronald R. Carter
(SIGNATURE OF APPLICANT)

APPROVED BY Sid Abel FOR Shallow Trenches DATE 5-13-88

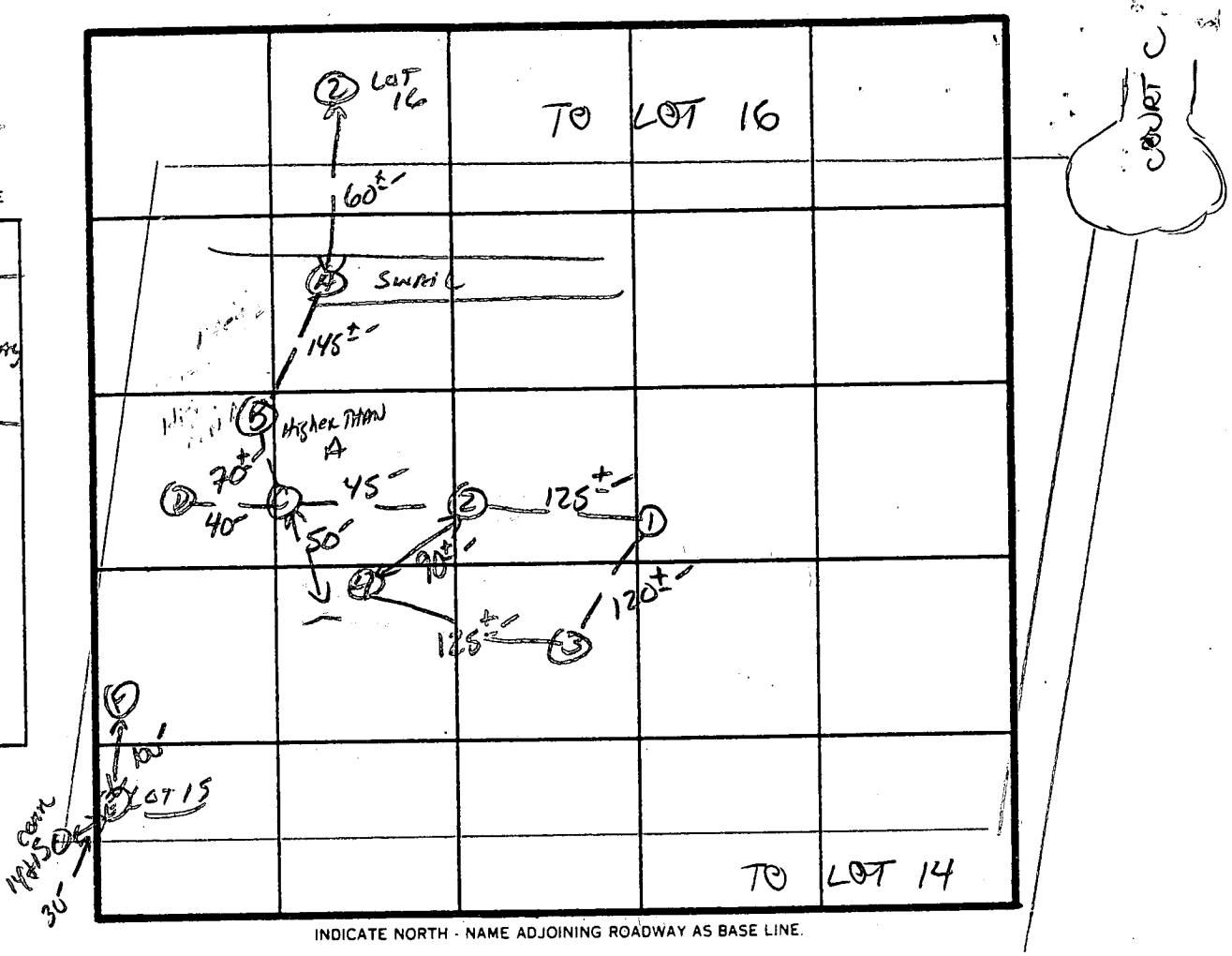
REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 2-3-87 Perc Satisfactory; Hold For Subdivision Plat. S. Abel

BLDG. PERMIT SIGNED
AND RETURNED 8-3-88
BP 20359 SA

THIS IS NOT A PERMIT



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0'	AP
10"	Yellow Br Si Loam 9-12% Clay <10% Gravel
4-5'	Yellow Br Sand Lm. 20-25% Gravel Slightly Micaceous
12-13'	

X Perc.
5 Min
Inlet 4.5
Bottom 6.0
180 ℄/Br

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
2/3/87	1 S V	5' 13'	1:54 Uniform soil below	1:56	1:56 5'	2:00	4 Min
	2 S V	4' 12'	2:08 Uniform soil below	2:10	2:10 4'	2:14	4 Min
	3 S M	4.5 8.5	2:01 1:58	2:04 2:01	2:04 2:01	2:09 2:05	5 Min 4 Min
	3 V	12.5'	Uniform	Soil below 4'			
	4 S V	4' 12'	2:05 Uniform	2:06 Soil below 4'	2:06	2:09	3 Min
	E F	Water at Water at	5Ft 7Ft	Mottles at Mottles at	3.5' 5'		
	C+D	Rock at	9-8'	Respectively			
	A- B-	Water at 11 Ft Water at ~~8Ft~~	Perched				

REMARKS Shallow Syst. Only Holes not Per Plat

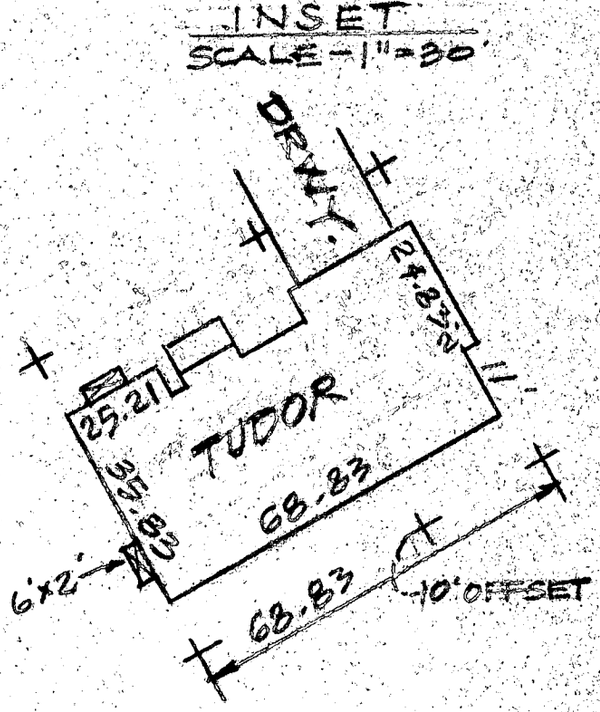
TYPE OF SOIL Manor/Chester

TESTED BY S. Bol

ALSO PRESENT Phil M. Cicsil

EH-12-1079

PLOT PLAN
LOT 15 SECTION 1
GLENWOOD SPRINGS
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



BLDG. PERMIT SIGNED
AND RETURNED 8/3/88
BP 20359
S. Abs

Tri - County Surveys, Inc.
BOX 55 • DAMASCUS, MARYLAND 20872 • (301) 831-3655
LAND PLANNING CONSULTANTS • SUBDIVISIONS • LOTS & BOUNDARIES

REFERENCE
Plat Book —
Plat No. 7361

COUNTY OF HOWARD

Drawn by: C.L.W
Checked by:
Job No.: 88-029
Scale: 1" = 100'
DATES
Wall Ck.:
Final Loc.:
Recert.:

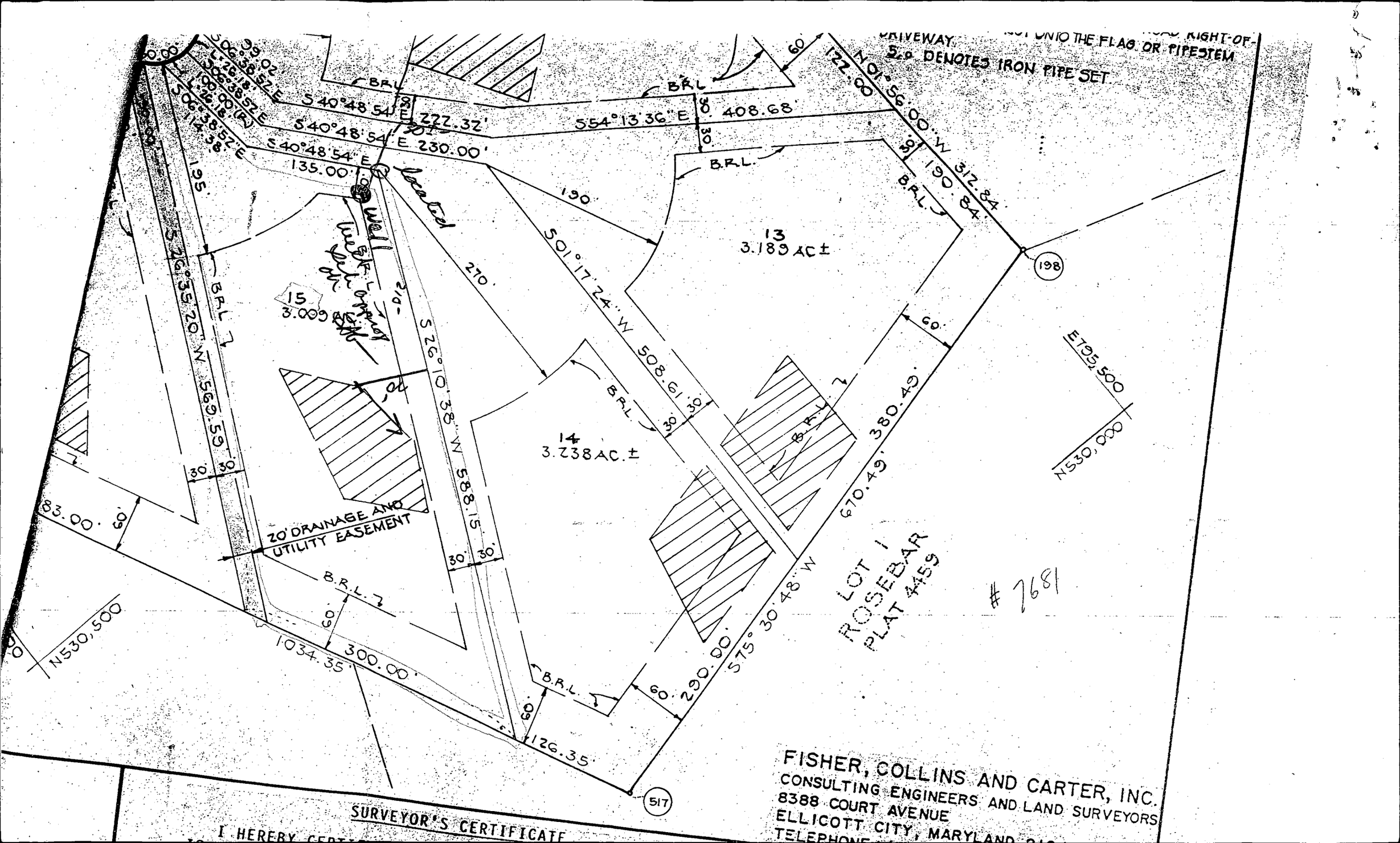
SURVEYOR'S CERTIFICATION

I hereby certify that the property delineated hereon is in accordance with the Plat of record, [redacted]. This Plat is not for determining property lines, but is for the use of present owners of property and also those who purchase, mortgage or guarantee the same on the date hereof, and as to them I warrant the accuracy of this Plat.

William L. Wirts 7/20/88

WILLIAM L. WIRTS - Registered Land Surveyor - Maryland No. 10721

NOTE: This drawing is not intended or represented to be a lot stake out survey [illegible] and is not to be used or relied upon, for the establishment of any fence, building or other improvements. No responsibility [illegible].



SURVEYOR'S CERTIFICATE

I HEREBY CERT...

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND
TELEPHONE ...

C1 7800 SEQUENCE NO. (OEP USE ONLY)
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

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

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

COUNTY NUMBER A - 38362

DATE Received

DATE WELL COMPLETED 05/24/88

Depth of Well 245 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-81-2739

OWNER CAHOMAN ASSOCIATES (last name / first name)

STREET OR RFD SADDLEBACK CT. TOWN GLENWOOD

SUBDIVISION GLENWOOD SPRINGS SECTION LOT 15

WELL LOG
Not required for driven wells

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

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	Check if water bearing
SAND STONE	0	8	
CONGLOMERATE ROCK	8	245	

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y / no N
TYPE OF GROUTING MATERIAL
CEMENT CM BENTONITE CLAY BC
NO. OF BAGS 5 NO. OF POUNDS 470
GALLONS OF WATER 30
DEPTH OF GROUT SEAL (to nearest foot)
from 0 ft. (TOP) to 18 ft. (BOTTOM)
(enter 0 if from surface)

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

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

OTHER CASING (if used) — EACH CASING

diameter inch	depth (feet) from	to

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

C2

	DEPTH (nearest ft.)	
EACH SCREEN 1	40	145
2		
3		

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

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

C3

PUMPING TEST
HOURS PUMPED (nearest hour) 2
PUMPING RATE (gal. per min. to nearest gal.) 15
METHOD USED TO MEASURE PUMPING RATE Bucket
WATER LEVEL (distance from land surface)
BEFORE PUMPING 20
WHEN PUMPING 30

TYPE OF PUMP USED (for test)
A air P piston T turbine
C centrifugal R rotary O other (describe below)
J jet S submersible

PUMP INSTALLED
DRILLER WILL INSTALL PUMP (CIRCLE) (YES or NO) 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) + above / − below LAND SURFACE (nearest foot) 1

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.

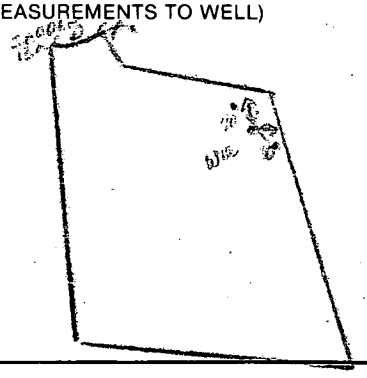
DRILLERS IDENT. NO. 238

Joseph L. Mayo
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

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

N



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

HEALTH

Page ____ of ____
Date 5/24/88

Review 8/3/88 SM

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-2739
Location of property (road) SADDLEBRED Ct.
Subdivision Glenwood Springs Lot 15 Block ____ Plat ____ Sec. ____
Well Driller V. Magee Owner CALMAN ASSOC.

Depth of well 245'
Distance of measuring point (M.P.) above ground 2'
Static water level (S.W.L.) below M.P. 20'

I. High rate pumping -- reservoir drawdown

Time pump started 11:35 Pumping rate 15 GPM.
Total time 15 min to reach pumping water level 20 ft. below M.P.

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

TIME (in 15 minute intervals	WATER LEVEL below M.P.	PUMPING RATE time to fill #1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
11:50	20	4 sec		15
12:05	20	4		15
2:20	20	4		15
12:35	20	4		15
12:50	20	4		15
1:05	20	4		15
1:20	20	4		15
1:35	20	4		15
1:50	20	4		15
2:05	20	4		15
2:20	20	4		15
2:35	20	4		15

HD-224

HOWARD COUNTY HEALTH DEPARTMENT

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

Bureau of Environmental Health
3525 Ellicott Mills Drive
Ellicott City, Maryland 21043

Director - 461-9956
Water & Sewerage, Permits - 461-9933
Community Environmental Health - 461-9944
Technical Services - 461-9955

June 16, 1988

Carman Associates
P. O. Box 122
Ellicott City, Maryland 21043

RE: Glenwood Springs - Lot 15
Well Tag Number: HO-81-2739
Saddlebred Court

To Whom It May Concern:

At the time of the yield test on the above referenced lot, the water sample taken showed an unacceptable nitrate-nitrogen concentration (18.0 parts per million), turbidity index (11 NTU's) and above normal iron content (1.86 parts per million). These problems are potentially correctable with the use of treatment filters.

Approval of this water supply at the time of sampling for use and occupancy will depend on the installation of a nitrate removal system and an iron removal device. Both of these devices should bring the water supply into compliance with the State Regulations.

The nitrate-nitrogen level was present at a concentration of 18.0 parts per million (See Enclosure). COMAR 10.17.13.09 prohibits approval of any water supply with a nitrate-nitrogen contaminant level in excess of 10 parts per million.

This department will grant a Permanent Deviation from that regulation if a nitrate removal device is installed that effectively maintains the nitrate-nitrogen contaminant level below the 10 parts per million requirements. Once this device is installed, it will be necessary for you to comply with the following conditions before a Final Certificate of Potability can be issued:

1. Within six months, you must have your water re-tested to insure that the installed nitrate removal system is operating properly. Thereafter, a yearly nitrate analysis is recommended.

2. There must be a continuing service contract with a plumbing contractor or water treatment service company to maintain the efficiency of the nitrate removal device. You must supply this department with a copy of that contract.

3. If in the future, you decide to sell or rent your home, you must make any potential buyer/tenant aware of the above condition.

If the above conditions are not improved by the installation of these treatment devices, then reconstruction or replacement of the well will be required.

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

Very truly yours,

Jane E. Nadeau

Jane Nadeau, Sanitarian
Water and Sewerage Program

JN:JR

Enclosure

cc: Mr. Joseph Mayne