

8/24/00

12:00

8/24/00  
C.B. - am

05-433509

# PERMIT

## SEWAGE DISPOSAL SYSTEM

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

410-313-2640

P 514198

A 511907

ISSUE DATE 8/21/2000

APPROVAL DATE 8/28/00

### INDEXED

J. Joseph Gartland, Inc.

IS PERMITTED TO INSTALL x ALTER

ADDRESS 1835 West Old Liberty Road, Westminster, MD 21157

PHONE 410-875-2400

SUBDIVISION Williams Farm

LOT NUMBER 1

ADDRESS 13007 Red Maple Way

PROPERTY OWNER Carrigan Homes, Inc.

PROPERTY OWNER'S ADDRESS 9812 Caitlins Court

SEPTIC TANK CAPACITY 1250 GALLONS

Ellicott City, MD 21042

PUMP CHAMBER CAPACITY N/A GALLONS

NUMBER OF BEDROOMS 4

" OFF OF TWELVE HILLS DRIVE "

SQUARE FEET PER BEDROOM 180

LINEAR FEET OF TRENCH REQUIRED 180

TRENCHES: Trenches to be 2 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 7 feet below original grade. 4 feet of stone below distribution box.

LOCATION: Place the distribution box 180 feet from the 500.00' lot line near the well and 240 feet from the 304.00' lot line downhill. Run trenches on contour toward driveway.

7/18/00 OK ALM

PLANS APPROVED Mark E. Rifkin

DATE 5/18/2000

PERMIT VOID AFTER 2 YEARS

NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS

NOTE: TOP OF SEPTIC TANKS ARE TO BE NO DEEPER THAN 3.0 FEET BELOW FINISH GRADE

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

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

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

BP signed 11/30/2000

NOTE: NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH UNLESS SPECIFICALLY AUTHORIZED

BOO 127593 - DECK

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

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

NOTE: IF PUMPED SEPTIC SYSTEM REQUIRED, (1) SEPTIC PUMP DETAIL TO BE PROVIDED BY INSTALLER PRIOR TO ISSUANCE OF SEPTIC PERMIT (2) PUMP PERFORMANCE TEST IS NECESSARY PRIOR TO HEALTH DEPARTMENT APPROVAL OF SEPTIC PERMIT

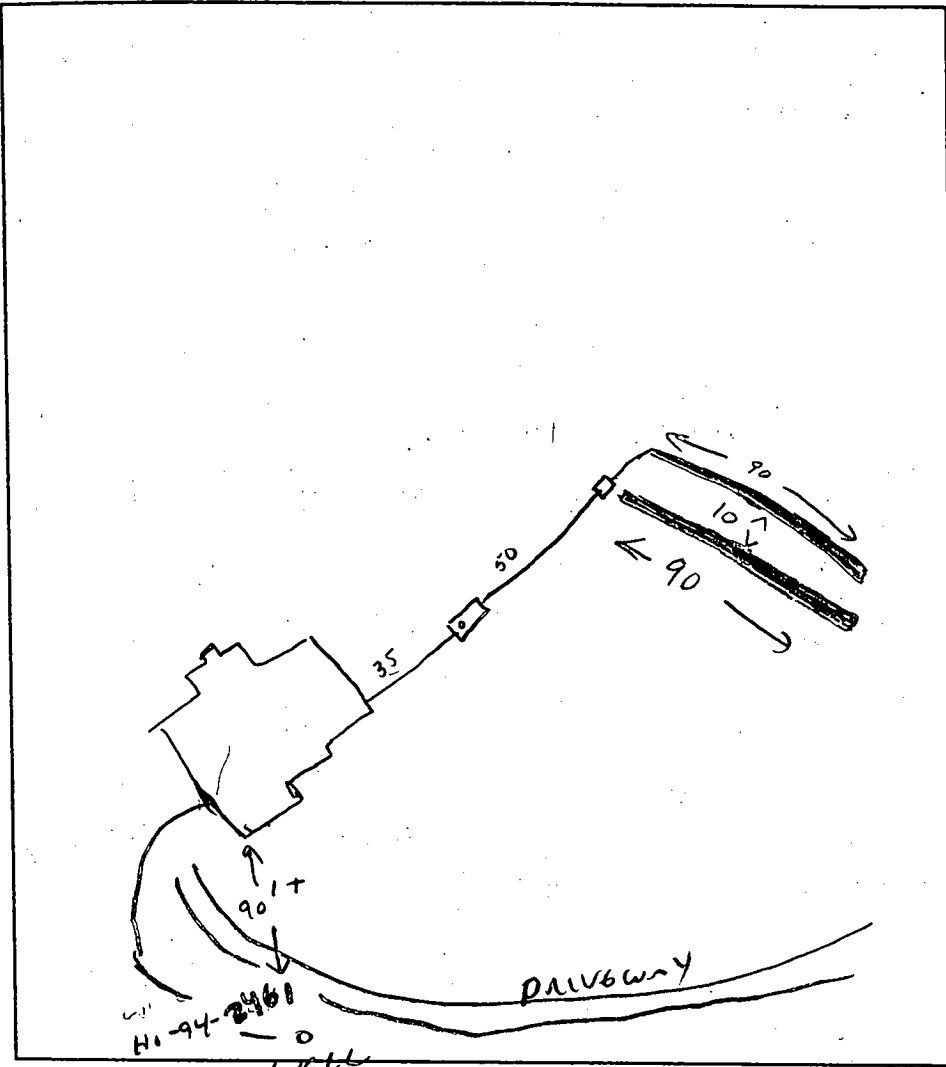
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

A511907

NOT TO SCALE



**TRENCH DATA**

TRENCH WIDTH 2  
 TRENCH INLET DEPTH 3  
 TRENCH BOTTOM DEPTH 7  
 DEPTH OF STONE 4  
 NUMBER OF TRENCHES 2  
 TOTAL TRENCH LENGTH 180  
 ABSORBENT AREA 720  
 DISTRIBUTION BOX LEVEL   
 BAFFLE IN DISTRIBUTION BOX

**SEPTIC TANK DATA**

SEPTIC TANK 1250 GALLONS  
 MANHOLE RISER —  
 6 INCH INSPECTION PORT

**PUMP CHAMBER DATA**

PUMP CHAMBER GALLONS N/A  
 MANHOLE RISER —  
 ALARM —  
 PUMP PERFORMANCE TEST

PRE-CONSTRUCTION INSPECTION: \_\_\_\_\_

INSPECTION COMMENTS: HOUSE SEWER - TANK - DB COMPLETE, OK TO COVER,

DIST. BOX IS AT STAKED CORNER OF SEPTIC AREA, 8/23/00 CW

1ST TRENCH DUG - OK TO ADD STONE... 8/28/00 CW

2ND TRENCH COMPLETE - OK TO ADD STONE & COVER 8/28/00 CW

INSPECTOR C. Wall

DATE SYSTEM APPROVED 8/28/00

7/9/99  
10:00

# APPLICATION

PERCOLATION TESTING

A 511907

P \_\_\_\_\_

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

DISTRICT \_\_\_\_\_

DATE 5/24/99

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

CARRIGAN HOMES INC.

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

PROPERTY OWNER FRANCES K. WILLIAMS & ROBERT B. WILLIAMS, TRUSTEE

ADDRESS 13110 GREENBERRY LANE PHONE \_\_\_\_\_  
CLARKSVILLE, MD 21029

AGENT OR PROSPECTIVE BUYER MILDENBERG, BOENPER & ASSOC., INC.

ADDRESS 5072 DORSEY HALL DR., SUITE 202 PHONE (410) 997-0296  
ELLICOTT CITY, MD 21042

PROPERTY LOCATION:

SUBDIVISION N/A LOT NO. N/A

ROAD AND DESCRIPTION 13007 RED MAPLE WAY  
PROPOSED PARCEL LOCATED JUST

SOUTHWEST OF THE END OF RED MAPLE WAY  
NORTH OF THE TWELVE HALDORNS DIVISION

TAX MAP 28 PARCEL # P/O 48 AND RETURNED 5/18/2000  
Boo124005

SIZE OF LOT 3.51 ACRES TYPE BLDG. SFD - 4 BRMS  
PARCEL (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.

Stephanie Remchik  
(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

A 511907

COUNTY #

SOIL PROFILE

(2)

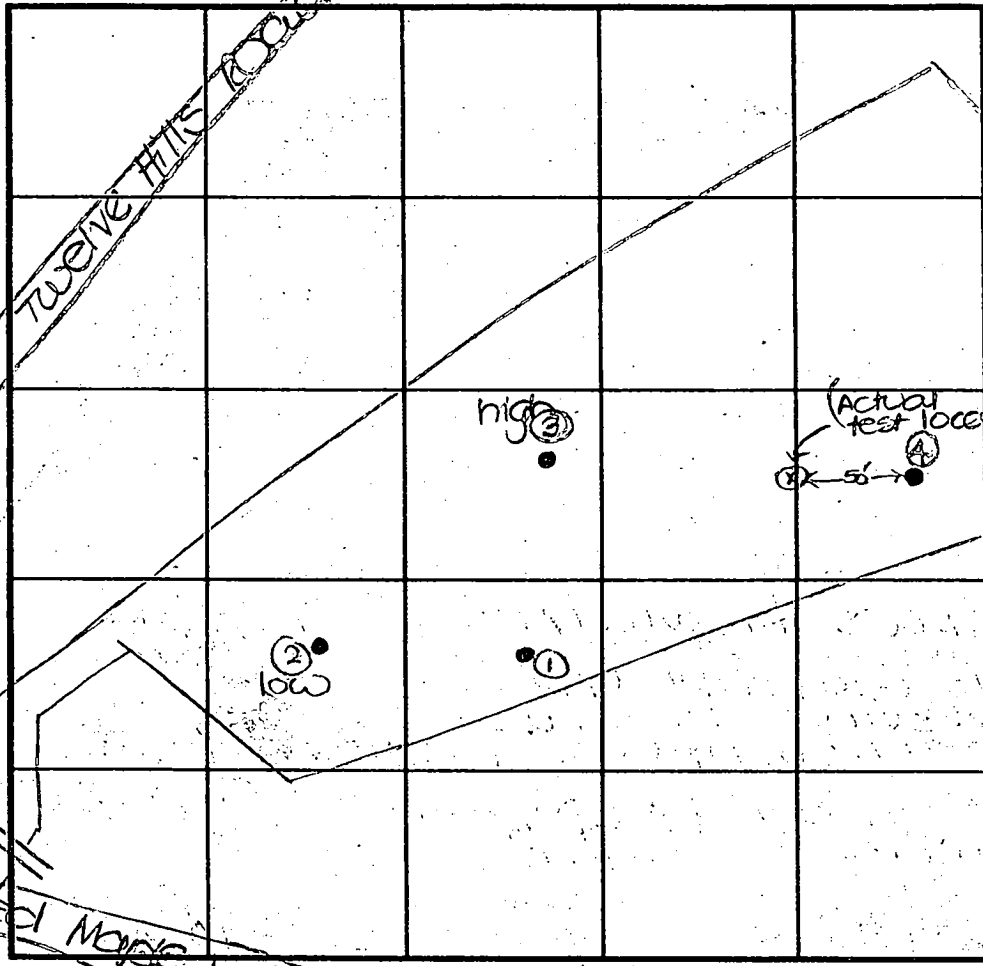
top soil  
 red org  
 brn  
 cl Lm  
 3.5'  
 pale org  
 brn  
 si Lm  
 w/mica  
 12'  
 5-10%  
 sapr  
 sh

(1)

top soil  
 red org  
 brn  
 cl Lm  
 3.5'  
 pale  
 org brn  
 si Lm  
 w/little  
 mica  
 15%  
 hard  
 R<sub>1</sub>  
 12'

(3/4)

top soil  
 org brn  
 cl Lm  
 3.5'  
 pale  
 org brn  
 si Lm  
 12'  
 5-10%  
 hard  
 R<sub>X</sub>



SOIL PROFILE

0'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7-9-99	2	4.5' S	10:44	10:44 <sub>3</sub>	10:44 <sub>3</sub>	10:47	3
		12.0' D	Visual	- See	profile		OK
	1	4.0' S	11:04	11:06	11:06	11:09	3
		12.0' D	Visual	- See	profile		OK
	3	4.0' S	11:18 <sub>3</sub>	11:20	11:20	11:23	3
		12.0' D	Visual	- See	profile		OK
	4	12.0' D	Visual	- See	profile		OK

REMARKS tests done in a large cornfield

TYPE OF SOIL

TESTED BY D. See ALSO PRESENT K. Schissler

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 3 TRENCH WIDTH 2

INLET DEPTH 3.0 MAXIMUM BOTTOM DEPTH 7.0 SQ. FT./BEDROOM 180

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WATER AND SEWERAGE PROGRAM  
TEL: (410)313-2640 FAX: (410)313-2648

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: J. Jos. Gartland, Inc. Telephone #: 410-875-2400  
Address: 1835 W. Old Liberty Rd.  
Westminster, Md. 21157

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:  
Name (Print): Eric J. Gartland, Jr. License# 9549  
\* A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Carrigan Home, Inc. Telephone #: 410-463-7755  
Subdivision: Williams Farm Lot #: 1 Well Tag #: HO-94-2961  
Site Address: 13007 Red Maple Way  
Clarksville, Md. 21029

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit  
Make: Jacuzzi Make: Harvard Two piece watertight cap:   
Model #: 1545A182WB Model#: PT800 Screened, vented well cap:   
Pump Capacity 5 GPM Depth: 42" (36" min) Cap secured to casing:   
Well Yield:          GPM NSF approved:  Conduit min 18" E.G.:   
Depth of well encountered at time of pump installation: 500 (feet) Conduit secured to well cap:   
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4  
Torque arrestors or Cable guards are required - Must circle one  
Safety rope, if used, attached to inside of well casing with eye bolt         

Piping to house House Connection  
Type: Plastic PVC sleeved to undisturbed soil at wall penetration:   
PSI: 200 (160 psi min) Approximate length of sleeve: 6 FT.  
Depth of supply line: 42" (36" min) Sleeve caulked and sealed properly: YES

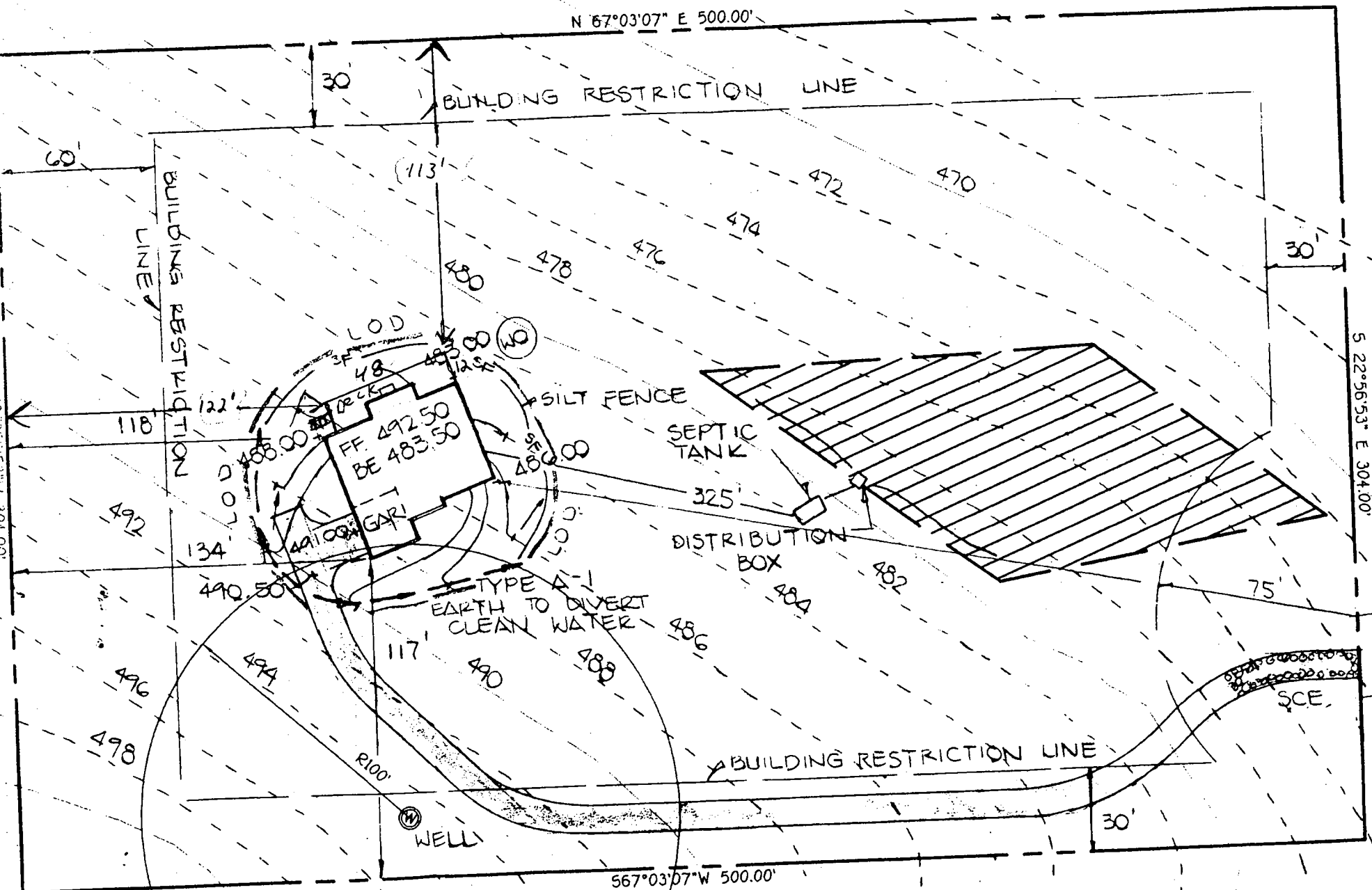
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

[Signature] 12-6-00  
Signature of company representative responsible for installation date

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 8/24/00 Date Insp. Approved: 8/24/00 CW Sen  
Inspection Data: Pitless adapter and water supply line at least 36" below grade   
Two piece cap installed and attached to casing securely   
Elec. conduit extends at least 18" below grade/attached to cap properly   
Safety rope installed inside of well casing   
Correct well tag attached properly and casing 8" above finished grade   
Water supply line sleeved adequately at house connection   
Adequate grout observed below pitless adapter

N 67°03'07" E 500.00'



S 22°56'53" E 304.00'

S 67°03'07" W 500.00'

50' scale

PROPOSED 30' INGR & EGRESS EASEMEN

EXISTING PIPELINE

CgB2

A511907

N 29°09'54" E 58  
S 29°09'54" W

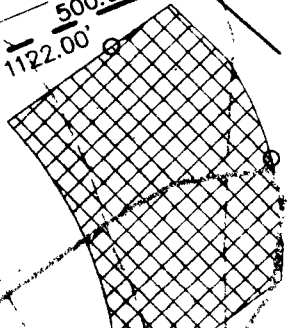
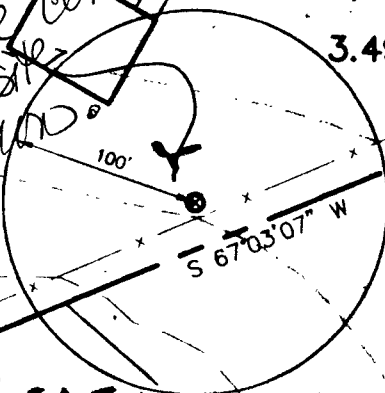
TEST HOLE AS STAKED BUT NOT TESTED

RELOCATED TEST HOLE

*10/7/99 well permit ok to proceed w/o site inspection prior to drilling. please confirm well site location.*

*1ST SITE DAY OK TO DRILL 50' TO WEST, OR ANY SPOT HIGHER 10/25/99*

152,000 SQ. FT. ±  
OR  
3.49 ACRES ±



LOT 48

LOT 49

ChC3

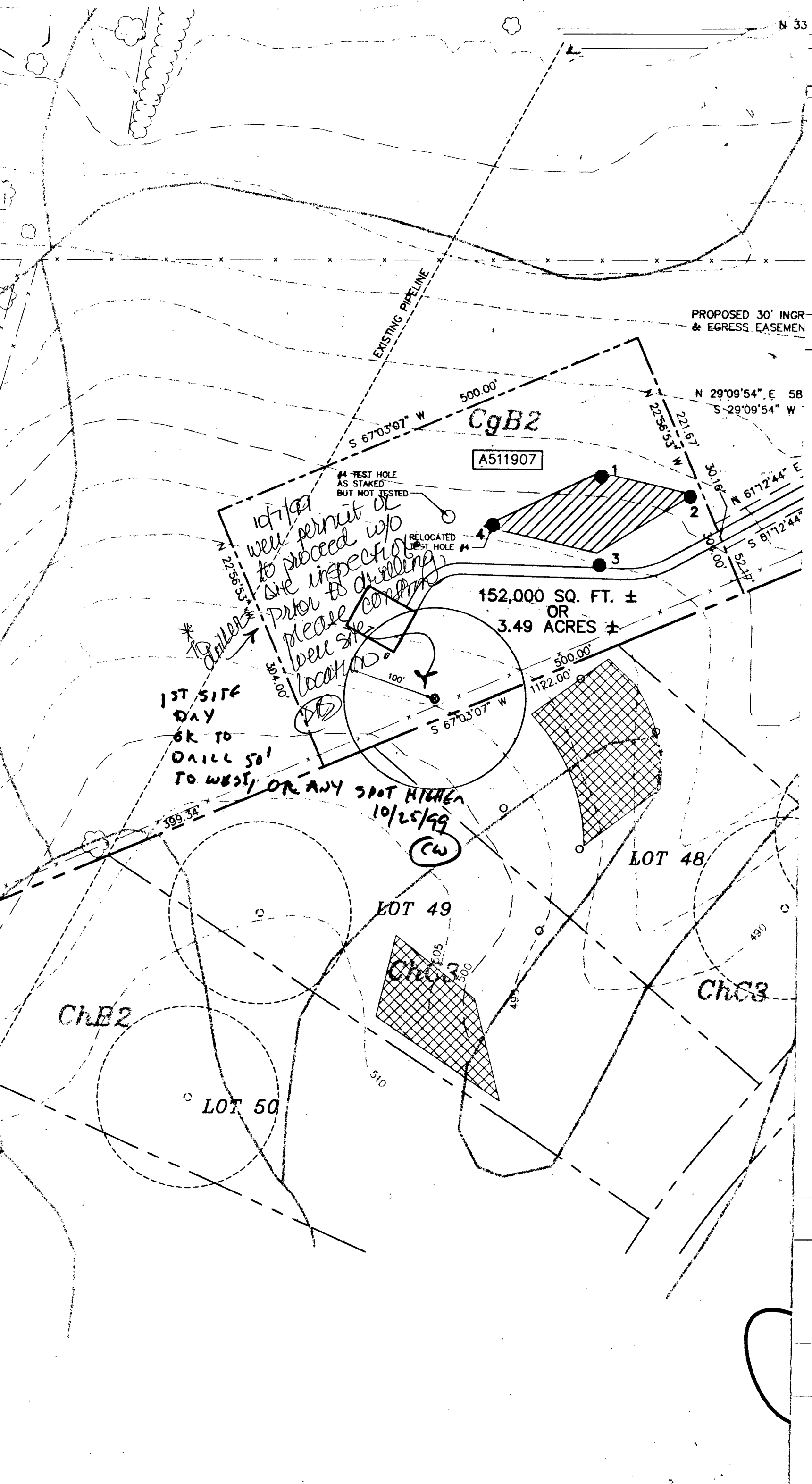
ChC3

ChB2

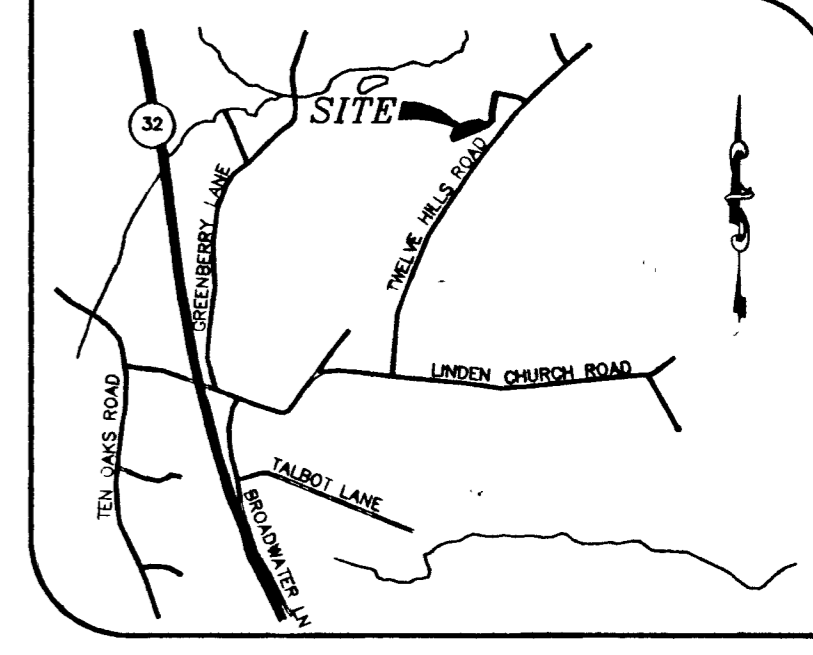
LOT 50

510

490





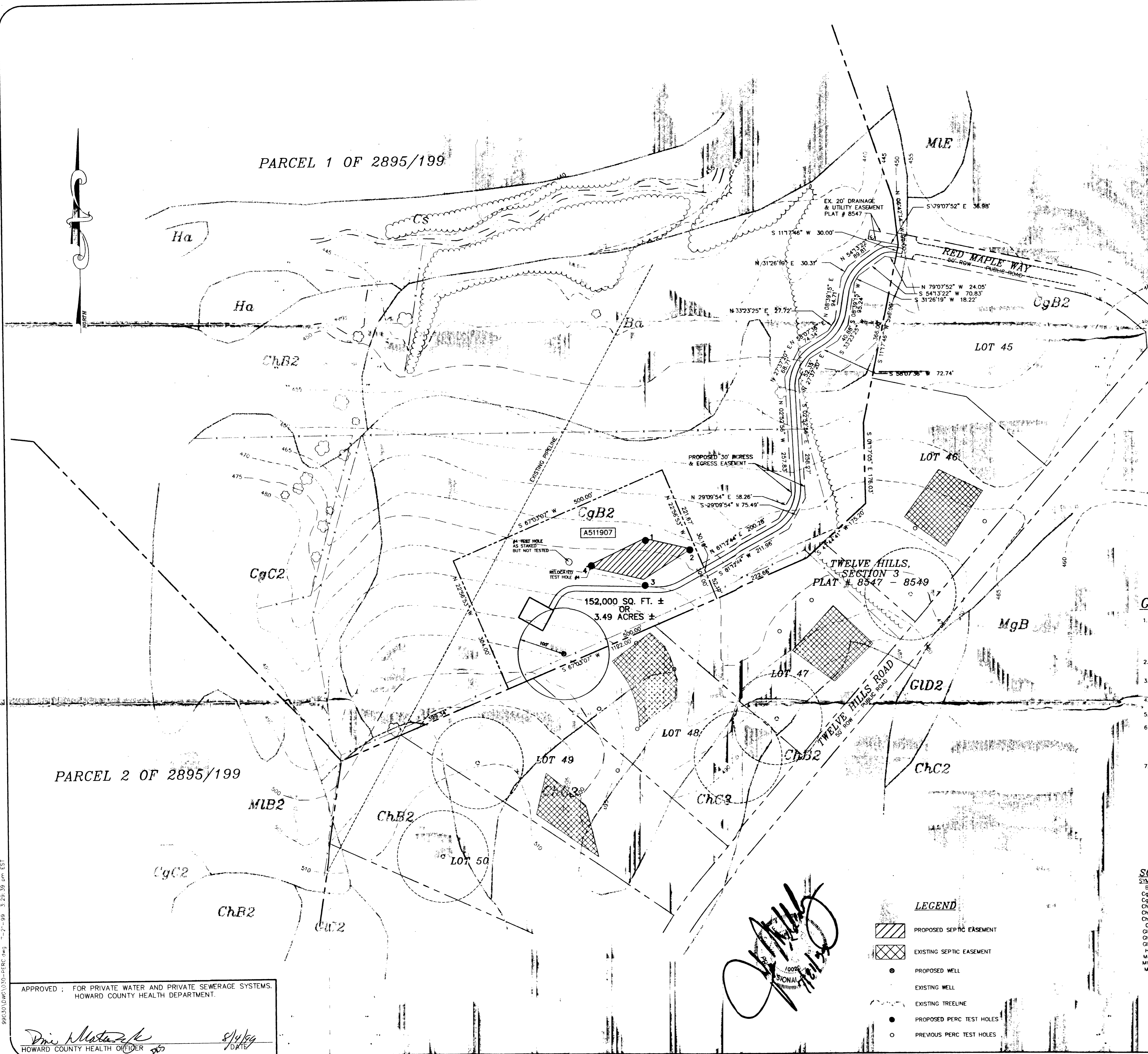


Project	99030	date	JULY 1998
Illustration	SJD	engineering	SJD
Scale	1"=100'	approval	JBM

no.	description	date

**WILLIAMS FARM**  
 TAX MAP 28 - PARCEL 48 - GRID 9  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
**PERC CERTIFICATION PLAT**

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
 (410) 997-0286 Bu. (301) 621-5521 Fax



- GENERAL NOTES:**
- SITE DATA:  
 TAX MAP 28, P/O PARCEL 48, BLOCK 9  
 DEED REFERENCE: 2895/199  
 GROSS AREA: 3.51 ACRES ±  
 ZONE: RR-DEO (ZONING MAP DATED OCTOBER 18, 1993)  
 ON A RECORD PLAT # 8547 - 8549
  - TOPOGRAPHIC DATA BASED ON HOWARD COUNTY'S 200 SCALE MAPS. BOUNDARY BASED ON A RECORD PLAT # 8547 - 8549
  - BASED ON AVAILABLE COUNTY DATA, NO HISTORIC STRUCTURES OR BURIAL GROUNDS EXIST ON SITE
  - SOIL DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED 1968, SHEETS 18.
  - PRIVATE WATER AND PRIVATE SEWERAGE WILL BE UTILIZED.
  - WELLS FOR THE ADJACENT LOTS HAVE BEEN SHOWN WITHIN 100 FEET OF THE PROPERTY LINE. THE PROPOSED SEPTIC EASEMENT FLOWS TOWARD A NATURAL SWALE WHICH IS INTERIOR TO THIS PARCEL. THIS PROPOSED EASEMENT WILL HAVE NO AFFECT ON ANY EXISTING ADJACENT WELLS. TO THE BEST OF OUR KNOWLEDGE ALL EXISTING SEPTIC EASEMENTS WITHIN 200' OF THE PROPERTY LINE HAVE BEEN SHOWN.
  - THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWERAGE EASEMENT, RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.

**SOILS LEGEND**

SYMBOL	SOILS DESCRIPTION	TYPE
Ba	BAILE SILT LOAM	TYPE D
CgB2	CHESTER GRAVELLY SILT LOAM, 3% TO 8% SLOPES, MODERATELY ERODED	TYPE B
CgC2	CHESTER GRAVELLY SILT LOAM, 8% TO 15% SLOPES, MODERATELY ERODED	TYPE B
ChB2	CHESTER SILT LOAM, 3% TO 8% SLOPES, MODERATELY ERODED	TYPE B
ChC2	CHESTER SILT LOAM, 8% TO 15% SLOPES, MODERATELY ERODED	TYPE B
ChC3	CHESTER SILT LOAM, 3% TO 15% SLOPES, SEVERELY ERODED	TYPE B
Cs	COMUS SILT LOAM	TYPE B
GID2	GLENELG LOAM, 3% TO 8% SLOPES, MODERATELY ERODED	TYPE B
GIB2	GLENELG LOAM, 8% TO 15% SLOPES, MODERATELY ERODED	TYPE B
GIC2	GLENELG LOAM, 15% TO 25% SLOPES, MODERATELY ERODED	TYPE B
Hc	HATBORO SILT LOAM	TYPE D
MgB	MANOR LOAM, 3% TO 8% SLOPES, MODERATELY ERODED	TYPE B
MIB2	MANOR LOAM, 3% TO 8% SLOPES, MODERATELY ERODED	TYPE B
MIE	MANOR LOAM, 25% TO 45% SLOPES	TYPE B

- LEGEND**
- PROPOSED SEPTIC EASEMENT
  - EXISTING SEPTIC EASEMENT
  - PROPOSED WELL
  - EXISTING WELL
  - EXISTING TREETLINE
  - PROPOSED PERC TEST HOLES
  - PREVIOUS PERC TEST HOLES

*[Signature]*  
 J. M. ...  
 10022  
 11/13/98

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT.

*[Signature]*  
 8/4/99  
 HOWARD COUNTY HEALTH OFFICER

*signed*

**OWNER**  
 FRANCES K. WILLIAMS & ROBERT B. WILLIAMS, TRUSTEE  
 1310 GREENBERRY LANE  
 CLARKSVILLE, MARYLAND 21029

99030.DWG (3/20/98) - PERC - DWG - 2/1/99 - 3:28:39 pm EST

C1 1998 SEQUENCE NO. (MDE USE ONLY)

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

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED ✓  
COUNTY NUMBER A511907

ST/CO USE ONLY  
DATE Received  
MM DD YY  
11 02 99

DATE WELL COMPLETED  
MM DD YY  
10 29 99

Depth of Well  
22 520' 26  
(TO NEAREST FOOT)

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"  
HO-94-2461

OWNER Benedict Douglas  
STREET OR RD last name first name  
SUBDIVISION Williams Farm SECTION TOWN Clarksville LOT

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	
Sand	0	70	
Gray Mica Rock	70	520	

Dry well  
Backfilled  
520-40 drilling materials  
40-0 Cement

GROUTING RECORD  
WELL HAS BEEN GROUTED (Circle Appropriate Box)  
 YES  NO

TYPE OF GROUTING MATERIAL (Circle one)  
CEMENT  BENTONITE CLAY

NO. OF BAGS 29 NO. OF POUNDS 2926  
GALLONS OF WATER 174  
DEPTH OF GROUT SEAL (to nearest foot)  
from 0 ft. to 70 ft.  
(enter 0 if from surface)

CASING RECORD  
casing types insert appropriate code below

<input checked="" type="checkbox"/> ST STEEL	<input type="checkbox"/> CO CONCRETE
<input type="checkbox"/> PL PLASTIC	<input type="checkbox"/> OT OTHER

MAIN CASING TYPE ST  
Nominal diameter top (main) casing (nearest inch)! 6  
Total depth of main casing (nearest foot) 75

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

SCREEN RECORD  
screen type or open hole insert appropriate code below

<input checked="" type="checkbox"/> ST STEEL	<input type="checkbox"/> BR BRASS	<input type="checkbox"/> HO OPEN HOLE
<input type="checkbox"/> PL PLASTIC	<input type="checkbox"/> PL BRONZE	<input type="checkbox"/> OT OTHER

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 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

NO 73 520

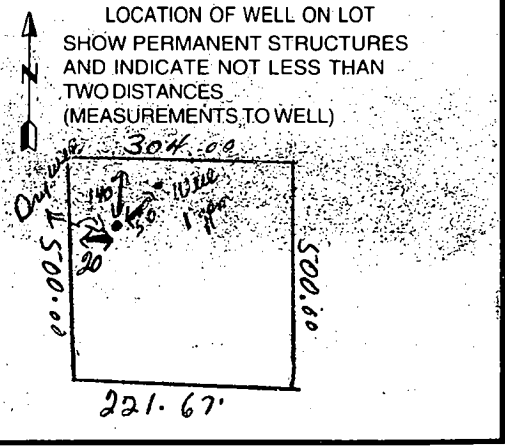
SLOT SIZE 1 2 3  
DIAMETER OF SCREEN (NEAREST INCH)  
56 60

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  
70 72 74 75 76  
TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST  
HOURS PUMPED (nearest hour) 6  
PUMPING RATE (gal. per min.) 1  
METHOD USED TO MEASURE PUMPING RATE Bucket  
WATER LEVEL (distance from land surface)  
BEFORE PUMPING 35 ft.  
WHEN PUMPING 407 ft.  
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 INSTALLED 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  
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  
- below 2 (nearest foot)



NUMBER OF UNSUCCESSFUL WELLS 1

WELL HYDROFRACTURED yes  no

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. 1 MSD024  
DRILLERS SIGNATURE Joseph L. Thayer  
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

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

B 1 14389

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL please print or type

STATE PERMIT NUMBER

HO - 94 - 2461 fill in this form completely

Date Received (ABA) 09/16/99

OWNER INFORMATION

Benedict E. Douglas 8560 Dark Hawk Circle Columbia Md. 21045

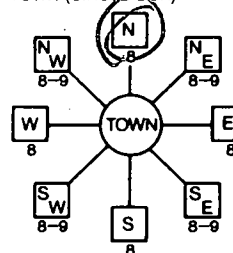
LOCATION OF WELL

Howard Williams Farm Clarksville

DRILLER INFORMATION

Joseph L. Mayne MSD 24 5512 Ridge Rd. Mt. Airy Md. 21771 9/15/99

DIRECTION OF WELL FROM TOWN (CIRCLE-BOX)



Red Maple Way

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



1100 FT DISTANCE FROM ROAD

TAX MAP: 28 BLK: PARCEL 48

WELL INFORMATION

APPROX. PUMPING RATE 5 GAL. PER MIN. AVERAGE DAILY QUANTITY NEEDED 500 GAL. PER DAY

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION (circled) FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) INDUSTRIAL, COMMERCIAL, DEWATERING PUBLIC WATER SUPPLY WELL TEST, OBSERVATION, MONITORING GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL.

Howard A511907 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 10/07/99 CO SIGNATURE EXP. DATE 10/6/00 NORTH GRID 510 000 EAST GRID 0808 000

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST

METHOD OF DRILLING (circle one)

BORED (or Augered) AIR-ROTARY (circled) AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVerse-ROTary DRive-POINT

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 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 DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

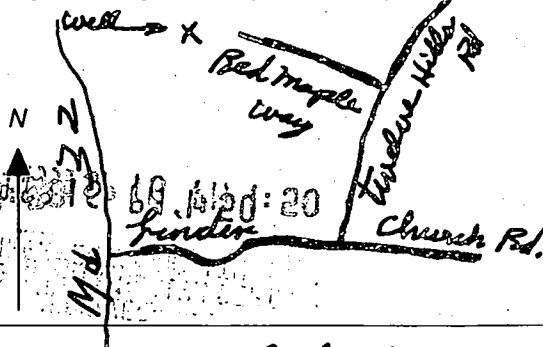
- SOURCES OF DRILLING WATER 1. well 2. 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 810 N 510

10/29/99 9:20 No insp. - attempt made; however well site could not be found in reasonable amt. of time SRW

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



Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER 54 G A P 63

PERMIT No. HO - 94 - 2461

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

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

Well Permit No. HO - 94-2401  
 Location of property (road) Red Maple Way  
 Subdivision Williams Farm Lot \_\_\_\_\_ Block \_\_\_\_\_ Plat \_\_\_\_\_ Sec. \_\_\_\_\_  
 Well Driller J. Maxine Owner Benedict

Depth of well 520'  
 Distance of measuring point (M.P.) above ground 2'  
 Static water level (S.W.L.) below M.P. 35'

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

Time pump started 7:15 Pumping rate 15 gpm.  
 Total time 75 minutes to reach pumping water level 407 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 $\frac{1}{2}$ gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
7:15	192'	4 sec.		15 gpm.
7:30	301	4		15
7:45	407	5		12
8:00	407	60		1
8:15	407	60		1
8:30	407	60		1
8:45	407	60		1
9:00	407	60		1
9:15	407	60		1
9:30	407	60		1
9:45	407	60		1
10:00	407	60		1
10:15	407	60		1
10:30	407	60		1
10:45	407	60		1
11:00	407	60		1
11:15	407	60		1
11:30	407	60		1
11:45	407	60		1
12:00	407	60		1
12:15	407	60		1
12:30	407	60		1
12:45	407	60		1
1:00	407	60		1
1:15	407	60		1
1:30	407	60		1
1:45	407	60		1
2:00	407	60		1

HD-224  
 1:30 407  
 1:45 407  
 2:00 407