

9/17/85  
9/18/85

1ST  
112

APPROVED  
9/18/85  
P 35593

# PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH\*

HOWARD COUNTY  
BUREAU OF ENVIRONMENTAL HEALTH  
992-2330

05-369143  
INDEXED

ELLICOTT CITY  
DISTRICT 5th  
DATE 5/31/85

John Sakie and Associates IS PERMITTED TO INSTALL  ALTER

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

SUBDIVISION Broadwater Estates ROAD 5666 Chamblis Drive LOT 11

PROPERTY OWNER David <sup>H</sup> Holladay Michael G. Terry, Jr

ADDRESS 9330 Our Time Lane, Columbia, Maryland 21045

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

GARBAGE GRINDER? YES \_\_\_\_\_ NO

SEPTIC TANK CAPACITY 1250 GALLONS NUMBER OF BEDROOMS 4

DRY WELL - 120 sq. ft. sidewall area per bedroom. Dry well inlet maximum to be 4  
ft. below original grade and dry well bottom to be 9 feet below  
original grade. Place the dry well 50 feet from the left lot line and 8 245 ft.  
(down left property line) from the left front corner point of lot as seen when fac-  
ing lot from Chamblis Drive per plat. ALSO MAY USE A DRY WELL AND TRENCH. TWO  
INSPECTIONS OF TRENCH BEFORE AND AFTER STONE INSTALLED. RUN TRENCHES ON CONTOUR.  
5 FT. EARTH BUFFER BETWEEN DRY WELL AND TRENCH.

TRENCH ONLY

IF TRENCHES ONLY USED 158 SQ. FT. PER BEDROOM SIDEWALL AREA REQUIRED.  
LOCATION OF TRENCHES WOULD START AT SAME LOCATION AS CALLED FOR ABOVE.

BLDG. PERMIT SIGNED  
AND RETURNED 10/16/85  
Serial # 41079  
2-story addition

PLANS APPROVED BY Charles B. Streaker DATE 1/7/80

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: IF TRENCH IS USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH.

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 THREE YEARS.

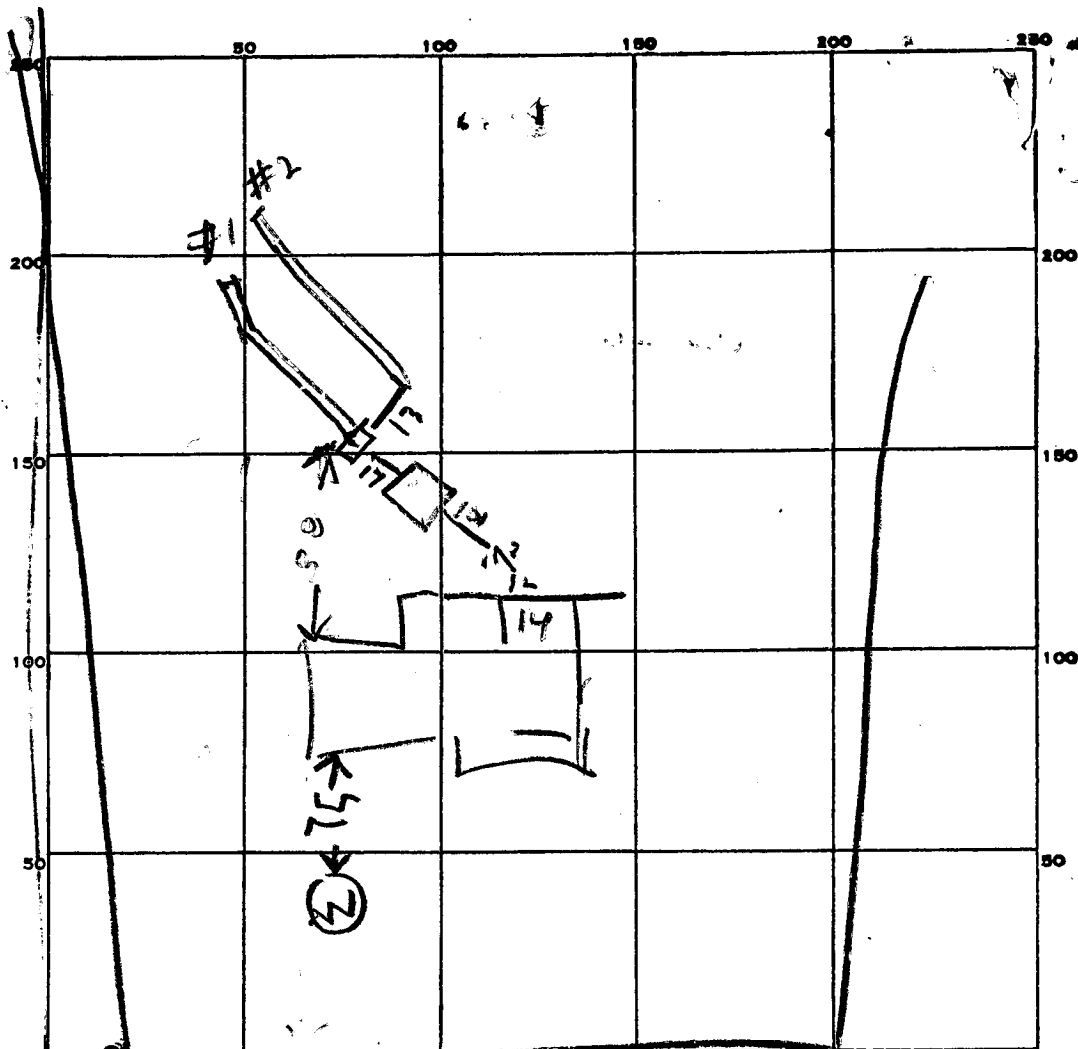
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA, OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

BLDG. PERMIT SIGNED  
AND RETURNED 4/9/87  
Serial # 10718  
Prof.

A 29002

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

\*CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

CHAMBLIS DR

PERMIT CARD \_\_\_\_\_

ST  
OK

SEPTIC TANK, LEVEL 1250

CLEANOUTS \_\_\_\_\_

DISTRIBUTION BOX, LEVEL \_\_\_\_\_

TILE FIELD, DEPTH	#1	#2	FT.	TRENCH WIDTH	#1	#2	FT.
	10	9.5		2	2		

GRAVEL DEPTH	#1	#2	IN.	TOTAL LENGTH	#1	#2	FT.	TOTAL
	6	5.5		65	69		134	

NUMBER OF TRENCHES	2	TOTAL BOTTOM AREA	#1	#2	TOTAL	REQUIRED
		397	379	769	732	

SEEPAGE PITS, INSIDE DIAMETER \_\_\_\_\_ FT. DEPTH BELOW INLET \_\_\_\_\_ FT.

ABSORBENT AREA \_\_\_\_\_ SQ. FT.

REMARKS 9/17/85 LOCATION OK PER PLANS ADD STONE TO TRENCH #1 9/17/85 200PM - CONTINUE ADDING STONE TO TRENCH #1 9/17/85 400PM - STONE ADDED TO TRENCH #1 OK TO COVER. DIG TRENCH #2 RH

9/18/85 - ADD STONE & PIPE TO TRENCH #2 OK TO COVER TANK RH  
 4X 158 = 732 REQUIRED 9/18/85 1PM - STONE ADDED

DATE SYSTEM APPROVED 9/18/85 INSPECTOR Raymond J. Hodder

#11 BROADWATER ESTATES

A29002

- 3 BEDROOMS - 1000 GALLON TANK
- 4 BEDROOMS - 1250 GALLON TANK

DRY WELL - 120 square foot sidewall area per bedroom. Dry well inlet maximum to be 4 feet below original grade and dry

well bottom to be 9 feet below original grade. Place the dry well 50

feet from the left lot line and 245 feet from the LEFT FRONT CORNER POINT

OF LOT

~~line~~ as seen when facing the lot from CHAMBLIS DR ~~MAP~~ PER PLATT.

IF TRENCHES ONLY - THE 150 SQ FT / BEDROOM REQUIRED.

OR IF DRY WELL & TRENCH USED - NEED:

- (1) 2 inspections of trench before and after stone installed.
- (2) Run trenches on contours.
- (3) 5' earth buffer between dry well and trench.

BP # 62272  
Signed 12-19-84  
JH

150  
32  
390

65  
6  
390

242

65  
30

# APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 29002

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES  
P.O. BOX 476 ELLICOTT, MARYLAND 21043  
TELEPHONE: 992-2330

DISTRICT 5th

⊗ *See attached sheet for specs*

DATE 10/11/78

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 Archie W. Broadwater DAVID NOLLADAY

ADDRESS 5435 Broadwater Lane, Clarksville, Md. 21029 PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION Broadwater Estates LOT NO. 11

ROAD AND DESCRIPTION off Broadwater Lane 5666 Chamblis Dr.

SIZE OF LOT 4.0 acres m/l TYPE BLDG. 3 or 4 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.

SIGNATURE OF APPLICANT /s/ Jack T. Gibson

APPROVED BY C. B. Steaker ⊗ Dry well + for FOR " " + trench DATE 1/7/80

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_ B.P. 62272

BLOG. PERMIT. 12-19-84

# THIS IS NOT A PERMIT

# 11

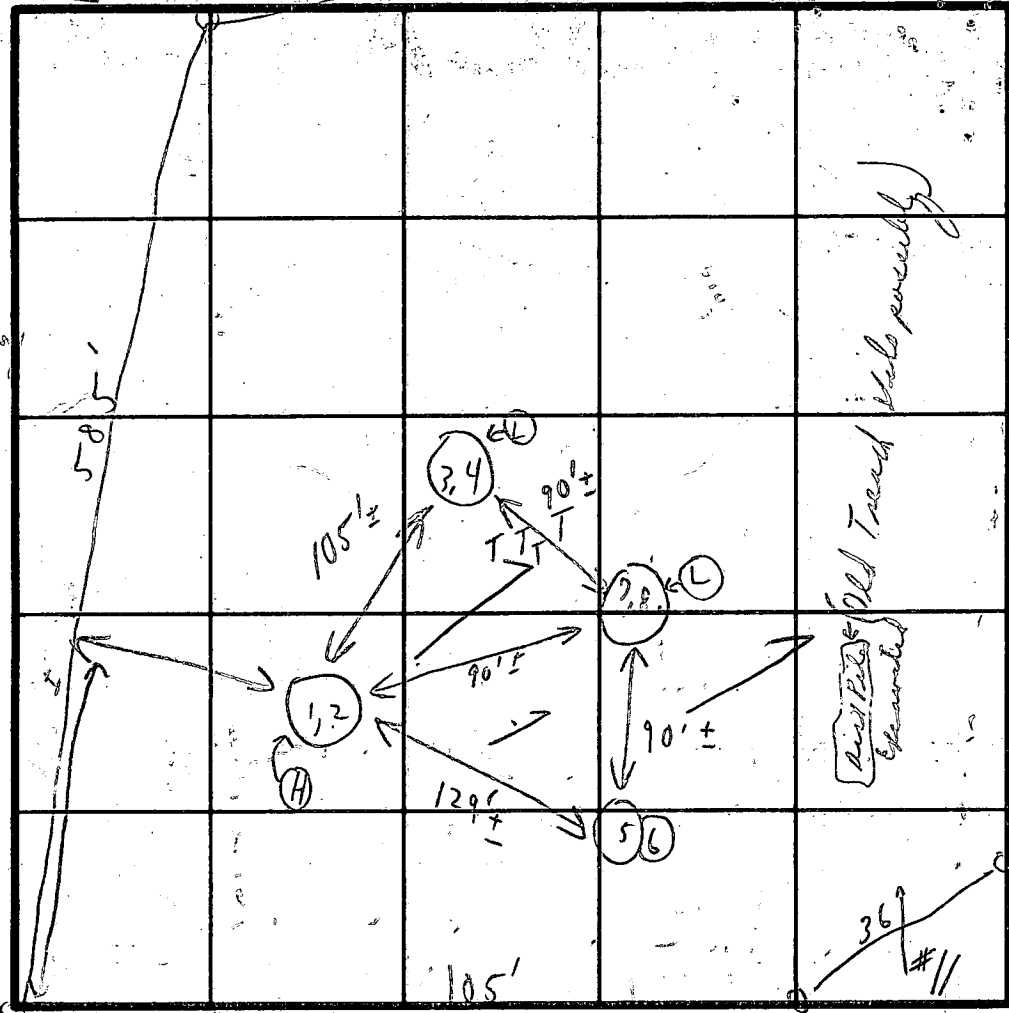
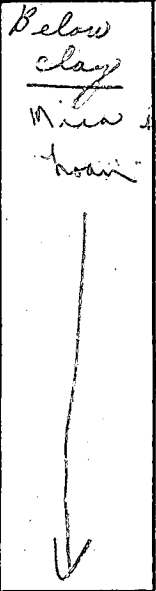
Exit Farm House

292'

255'

Field plot  
Trench  
Stakes

SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Unnamed Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11/24/72	1	4 1/2'	9:42	9:43	9:43	9:44	1m
	2	9'	9:43	9:50	9:50	10:01	11m
	3	5'	9:49	9:50	9:50	9:52	2m
	4	10 1/2'	9:48	9:50	9:50	9:53	3m
	5	4'	10:04	10:07	10:07	10:09	2m
	6	9 1/2'	10:05	10:0	10:05	10:13	8m
	7	5'	9:57	9:58	9:58	10:00	2 min
	8	9 1/2'	9:58	10:02	10:02	10:06	4m

{ Dry to }  
{ 12' }

{ Dry to }  
{ 13 1/2' }

{ Dry to }  
{ 12'0" }

{ Dry to }  
{ 12' }

inlet 4  
out 9

REMARKS

Tests in open field + some trees

TYPE OF SOIL

TESTED BY

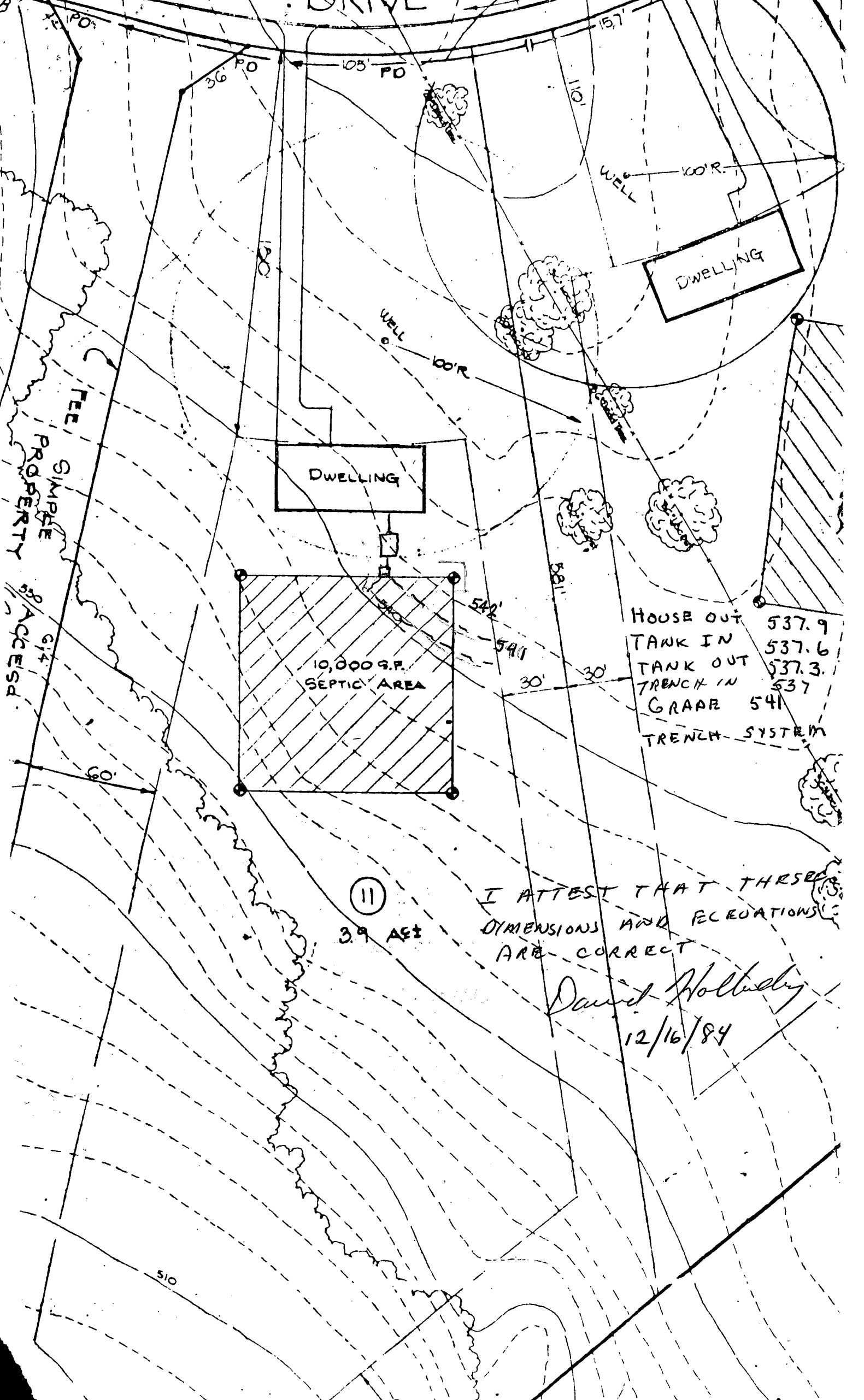
C. B. J

ALSO PRESENT

T. Wilson of Engeman  
2 diggers

Caught  
light  
diggers  
oil co.

DRIVE



11

3.9 AET

I ATTEST THAT THESE DIMENSIONS AND RELOCATIONS ARE CORRECT

David Holtzby

12/16/84

B 1 **1640** SEQUENCE NO. (OEP USE ONLY)

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

4/16/84

STATE OF MARYLAND  
PERMIT TO DRILL WELL

please print or type.

OEP PERMIT NUMBER

**40-81-0474**

fill in this form completely

Date Received **4/16/84**

**4/16/84** **Drill 9:30 AM**

OWNER INFORMATION

**Holiday David** (Last Name, Owner, First Name)

**9330 Our Time Lane** (Street or RFD)

**Columbia Md 21045** (Town, State, Zip)

LOCATION OF WELL

**Howard** (COUNTY)

**Broadwater Estates** (SUBDIVISION)

SECTION **44** LOT **111**

**Clarksville** (NEAREST TOWN)

MILES FROM TOWN (enter 0 if in town) **1** MI

DRILLER INFORMATION

**George F. Easterday** (Driller's Name) License No. **40**

**L. F. Easterday, Inc.** (Firm Name)

**9265 Brown Church Rd. Mt. Airy, Md. 21771** (Address)

**George F. Easterday** (Signature) Date **3/1/84**

**MD. Rt. 32 / CHAMBLIS DR.** (NEAR WHAT ROAD)

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

**W** (WEST)

**700** (DISTANCE FROM ROAD)

ENTER FT or MI **FT**

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) **5**

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500**

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** (COUNTY NAME) **A29002** (COUNTY NO.)

OEP SIGNATURE **Frank Shinn** DATE ISSUED **09/29/84**

**032984** (DATE ISSUED)

**505000** (NORTH GRID) **0811000** (EAST GRID)

APPROXIMATE DEPTH OF WELL **200** FEET

APPROXIMATE DIAMETER OF WELL **6** INCH

METHOD OF DRILLING (circle one)

BORED (or Augered)  JETTED  Jetted & DRIVEN

AIR-ROTARY  AIR-PERCussion  ROTARY (Hydraulic Rotary)

CABLE  REVERSE-ROTARY  DRIVE-POINT

other \_\_\_\_\_

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- well**
- 40+ - casing**
- 16 - bags cement**

WRITE THE BOX NUMBER FROM THE MAP HERE

**810** (E) **500** (N)

**Location - OK**  
**54' - casing**  
**40+ - open**  
**16 - bags cement**

**Truck broke down did not start well 11:30 AM 4/16/84**

**Well grouted 3:30 PM**

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

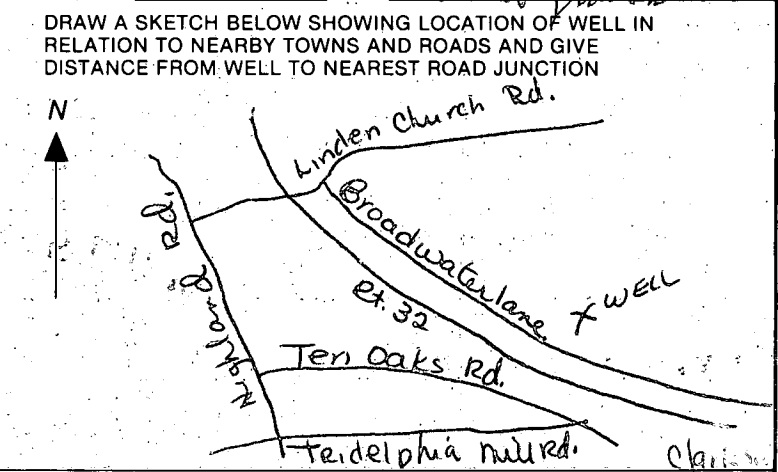
THIS WELL WILL NOT REPLACE AN EXISTING WELL

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

THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) \_\_\_\_\_



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

APPROX. PERMIT NUMBER **GAP**

FORCE **FS** WRITE INITIALS IN BOX PERMIT No. **40-81-0474**

SPECIAL CONDITIONS



**C1** 3354 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 29002**

DATE Received **030584** DATE WELL COMPLETED **0411684** Depth of Well **380** (TO NEAREST FOOT)  
 PERMIT NO. FROM "PERMIT TO DRILL WELL" **HO-81-0474**

OWNER **HOLLADAY DAVID** last name **CHAMBLIS DRIVE** first name **CLARKSVILLE**  
 STREET OR RFD TOWN  
 SUBDIVISION **BROADWATER EST.** 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
	FROM	TO	
top soil	0	4	
Brown mica	4	34	
tan mica	34	36	
Brown mica	36	60	<input checked="" type="checkbox"/>
tan mica	60	80	
gray mica	80	125	
tan mica	125	135	
gray mica	135	300	
tan mica	300	340	
gray mica	340	350	

**GROUTING RECORD**  
 WELL HAS BEEN GROUTED  YES  NO  
 TYPE OF GROUTING MATERIAL  
 CEMENT  BENTONITE CLAY   
 NO. OF BAGS **16** NO. OF POUNDS **1600**  
 GALLONS OF WATER \_\_\_\_\_  
 DEPTH OF GROUT SEAL (to nearest foot)  
 from **0** ft. to **40** ft.  
 (enter 0 if from surface)

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

**MAIN CASING** Nominal diameter Total depth  
 TYPE top (main) casing of main casing (nearest inch) (nearest foot)  
 S+  OG  54

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

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

**C2**

EACH SCREEN	DEPTH (nearest ft.)		
	1	2	3
1	<b>HO</b>	<b>52</b>	<b>380</b>
2			
3			

CIRCLE APPROPRIATE LETTER  
**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. **40**  
 DRILLERS SIGNATURE **George J. Koustaday**  
 (MUST MATCH SIGNATURE ON APPLICATION)  
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

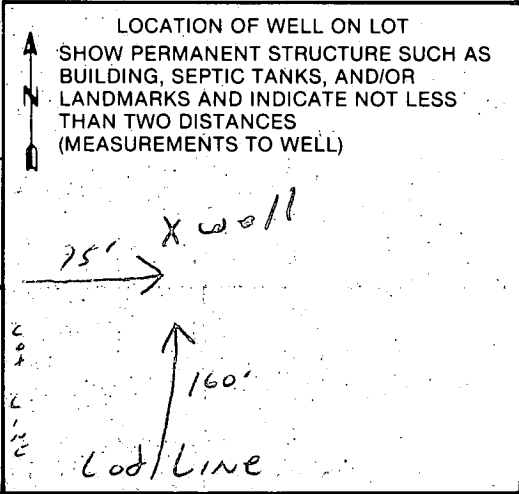
SLOT SIZE 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_  
 DIAMETER OF SCREEN \_\_\_\_\_ (NEAREST INCH)  
 from \_\_\_\_\_ to \_\_\_\_\_  
**GRAVEL PACK** \_\_\_\_\_  
 IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

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

**C3**

**PUMPING TEST**  
 HOURS PUMPED (nearest hour) **6**  
 PUMPING RATE (gal. per min. to nearest gal.) **2**  
 METHOD USED TO MEASURE PUMPING RATE **Bucket**  
 WATER LEVEL (distance from land surface)  
 BEFORE PUMPING **44**  
 WHEN PUMPING **168**  
 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:  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 } **02** (nearest foot) 49 50 51



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

Well Permit No. HO - 81-0474  
 Location of property (road) CHAMBLIS DRIVE  
 Subdivision BROAD WATER EST. Lot 11 Block          Plat          Sec.           
 Well Driller G. EASTERDAY Owner DAVID HOLLADAY

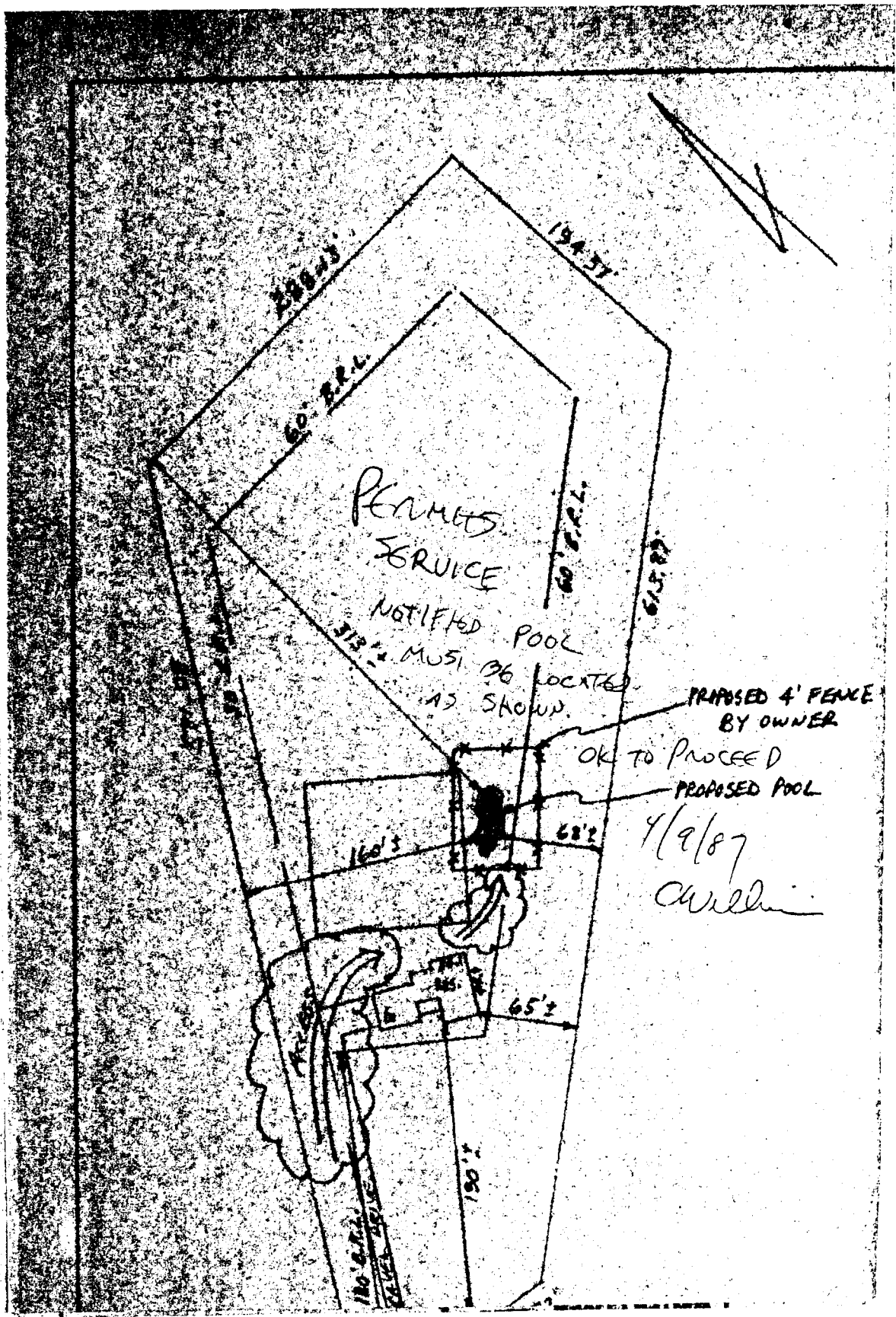
Depth of well 380 1 1/2 gm  
 Distance of measuring point (M.P.) above ground 24"  
 Static water level (S.W.L.) below M.P. 44'

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

Time pump started 8:10 Pumping rate 10 G.P.M.  
 Total time 8:30 to reach pumping water level 163' ft. below M.P.

**II. Recovery pump test data - observations to be recorded every 15 minutes** Pump 360

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)
8:30	163'	30 sec		2 G.P.M.
8:45	166'	30 sec		2 G.P.M.
9:00	166' 8"	40 sec		1 1/2 G.P.M.
9:15	167'	40 sec		1 1/2 G.P.M.
9:30	166'	40 sec		1 1/2 G.P.M.
9:45	166'	40 sec		1 1/2 G.P.M.
10:00	166' 2"	40 sec		1 1/2 G.P.M.
10:15	166'	40 sec		1 1/2 G.P.M.
10:30	166'	40 sec		1 1/2 G.P.M.
10:45	166' 4"	40 sec		1 1/2 G.P.M.
11:00	166' 4"	40 sec		1 1/2 G.P.M.
11:15	166' 5"	40 sec		1 1/2 G.P.M.
11:30	166' 5"	40 sec		1 1/2 G.P.M.
11:45	166' 5"	40 sec		1 1/2 G.P.M.
12:00	166' 2"	40 sec		1 1/2 G.P.M.
12:15	166' 6"	40 sec		1 1/2 G.P.M.
12:30	166' 8"	40 sec		1 1/2 G.P.M.
12:45	166' 9"	40 sec		1 1/2 G.P.M.
1:00	166' 9"	40 sec		1 1/2 G.P.M.
1:15	167'	40 sec		1 1/2 G.P.M.
1:30	167'	40 sec		1 1/2 G.P.M.
1:45	167'	40 sec		1 1/2 G.P.M.
2:00	167' 6"	40 sec		1 1/2 G.P.M.
2:15	167' 6"	40 sec		1 1/2 G.P.M.
2:30	167' 8"	40 sec	Bruce	1 1/2 G.P.M.



PERMITS  
SERVICE

NOTIFIED POOL

MUST BE LOCATED  
AS SHOWN.

PROPOSED 4' FENCE  
BY OWNER

OK TO PROCEED  
PROPOSED POOL

4/9/87  
Cullen

194.57

194.57

60' P.P.L.

73' S.P.L.

61.5' P.P.

160' S

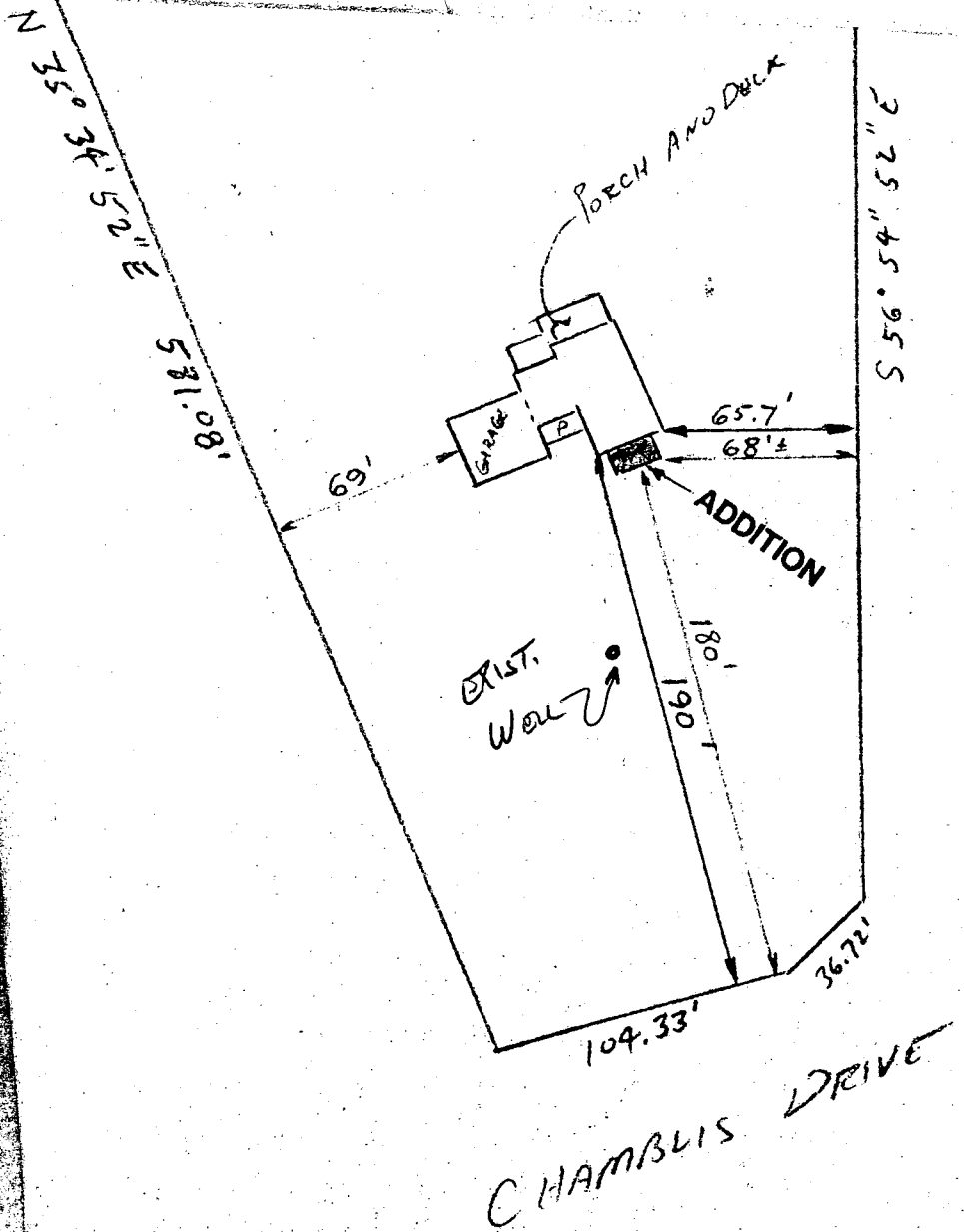
68' S

65' S

190' S

120' S.P.L.

60' P.P.L.



10/19/91  
 PLANS OK TO SIGN  
 BP 40019

5666 CHAMBLIS DRIVE  
 CLARKSVILLE  
 M.G. TERRY, JR.