

Tax ID - 03311422

7/29/87
10:00 AM

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

P 39518

A 36283

DISTRICT 3rd

DATE 6/30/87

DATE SYSTEM APPROVED 7-7-87

INSPECTOR S. AGO

INDEXED

Jack Fyock

IS PERMITTED TO INSTALL ALTER

ADDRESS _____ PHONE 988-9270

SUBDIVISION Clover Hill ROAD 12574 Clover Hill Dr LOT 7

PROPERTY OWNER Thomas Smallwood

ADDRESS _____

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

GARBAGE GRINDER? YES _____ NO

SEPTIC TANK CAPACITY 1000 GALLONS NUMBER OF BEDROOMS 3

TRENCHES - 168 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 8 feet below original grade. Effective area begins at 3 feet below original grade. 5 feet of stone below distribution pipe.

LOCATION - Place 1st trench 185 feet down the left (501') lot line and 230 feet off the left lot line (beginning from Front left corner) as seen when facing property from Clover Hill Drive. Run trenches along contour towards the left and front part of property.

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 B. Nixon DATE 10/21/86

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 TRENCHES ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCHES.

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.

COPIES PERMIT SIGNED
AND RETURNED 6/17/87

Serial # 54762-

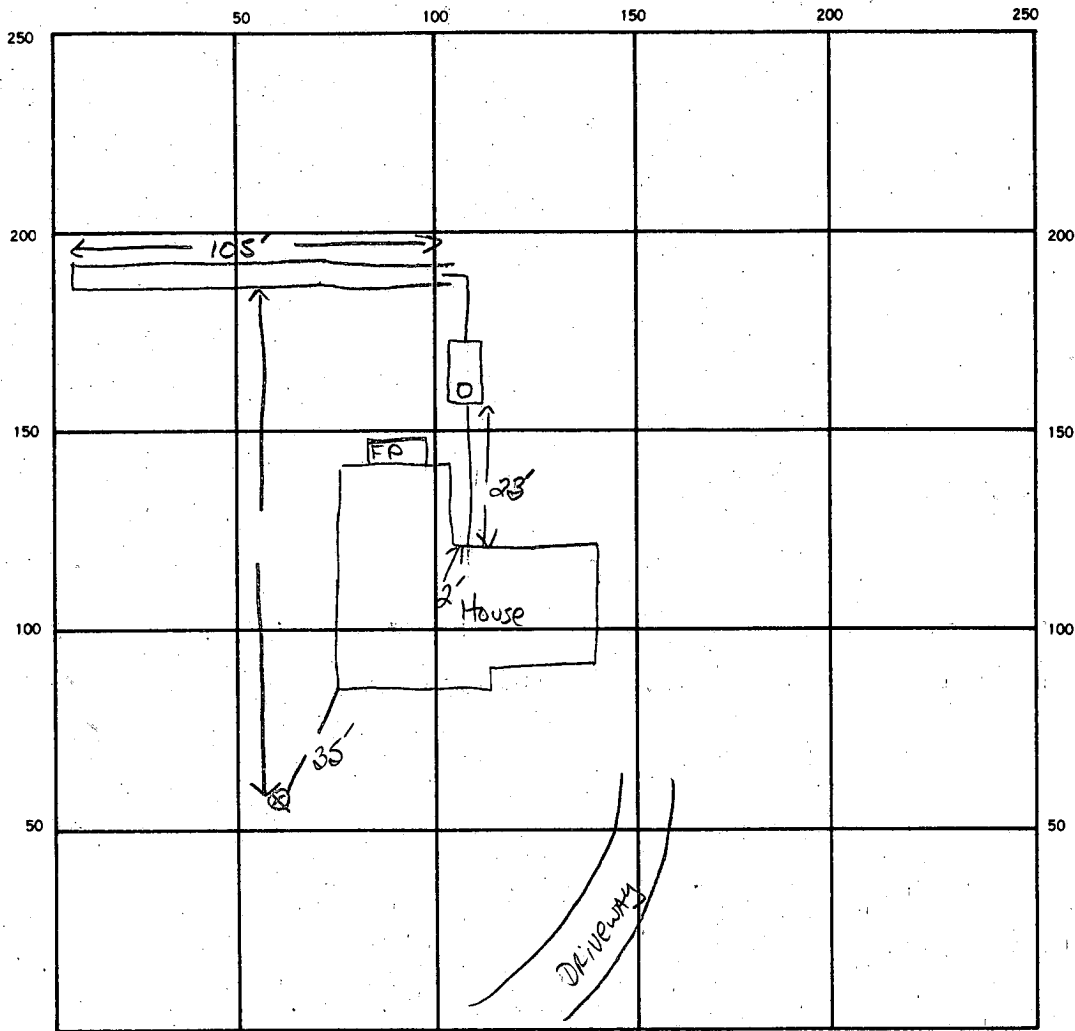
Ground pool

A 36283

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

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1186



INDICATE NORTH. — NAME ADJOINING ROADWAY AS BASE LINE.

SEPTIC TANK, LEVEL ✓ 1000 GAL CLEANOUTS ✓ 1ST

DISTRIBUTION BOX, LEVEL N/A

DRAIN FIELD/TILE FIELD, DEPTH 8 FT. TRENCH WIDTH 2 FT. INLET DEPTH 3 FT.

EFFECTIVE GRAVEL DEPTH 5 FT. TOTAL LENGTH 105' FT.

NUMBER OF TRENCHES 1 ONE SIDEWALL BOTTOM AREA 525 SQ. FT.

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

ABSORBENT AREA 525 SQ. FT.

REMARKS OK TO STONE TRENCH. S. Abel

DATE SYSTEM APPROVED 7-7-87 INSPECTOR S. Abel

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 36283
P _____

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

DISTRICT 3 RD
DATE Nov. 26, 1985

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 West Friendship Joint Venture
ADDRESS 3560 Ellicott Mills Drive PHONE 465-1777

PROPERTY LOCATION:

SUBDIVISION Clover Hill - Lots 1 thru 9 LOT NO. lot 7

ROAD AND DESCRIPTION On Maryland Route 144, 1400' ± S. of Rte 32 (at the dead end of existing S.R.C. Service Road)

SIZE OF LOT 3.00 ± AC. TYPE BLDG. 3
(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.

D. Bush
(SIGNATURE OF APPLICANT)

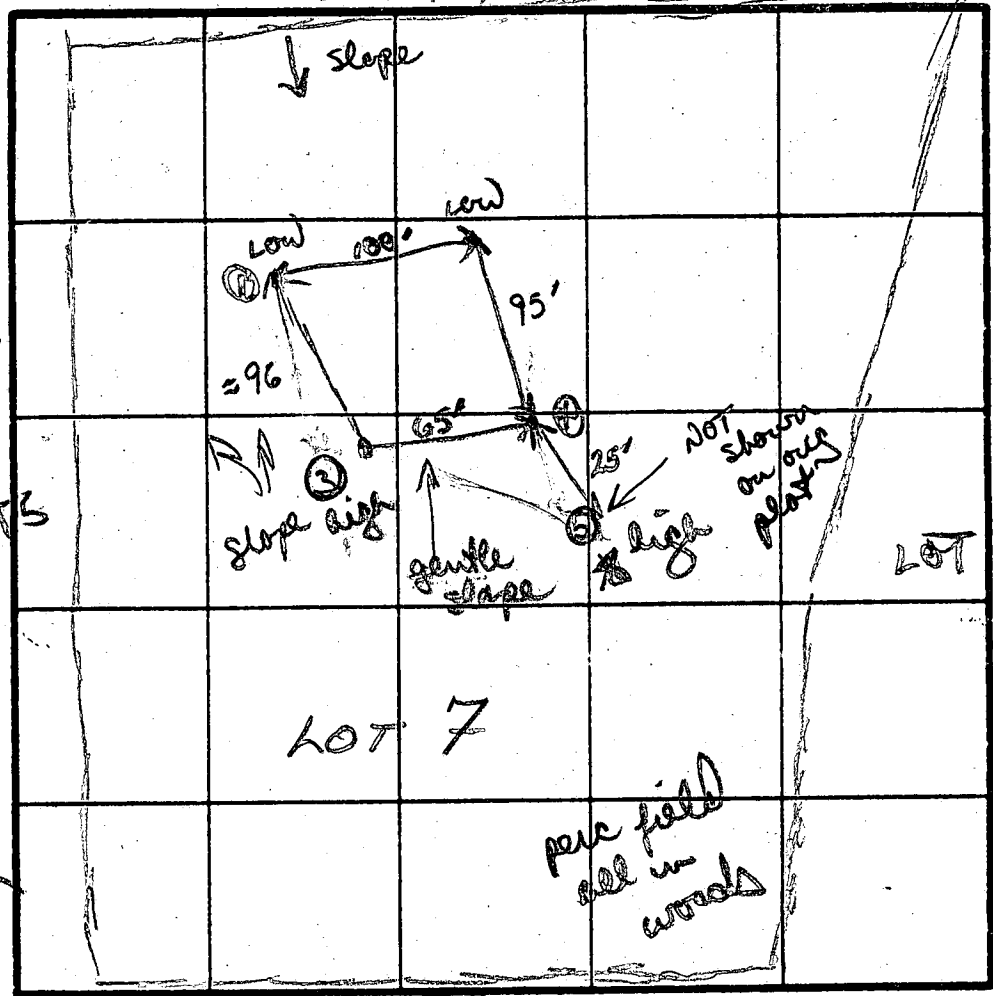
APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT



SOIL PROFILE
 ① ②
 red/brown clay layer 2 1/2'
 fine grain silty / micaceous loam 15%
 < 10% small frag. structure separate. uniform to bottom
 12' bottom

4+5
 3 1/2' sandy/clay loam
 red brown sand/silty loam
 ⑤ w/ mica ~ 10%
 12' ft

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
12/12/85	①	S 2'	307	311	311	315	4 min	
		D 12'	see profile					
	②	S 2'	323	326	326	330	4 min	
		D 12'	see profile					
	③	S 2 1/2'	336	338	338	341	3 min	
		M 5 1/2'	342	344	344	346	2 min	
		D 12'	bottom - see profile					
	④	VISUAL						
		D 12'	see profile					
	⑤	VISUAL						

③
 TOP SOIL 4"
 sandy/clay loam 2 1/2'
 sandy (fine-med grain) loam 6"
 fine silty powdery loam uniform to bottom
 12'

X - 3+ min
 W/ST 3'
 168 #
 12/12/85 approved

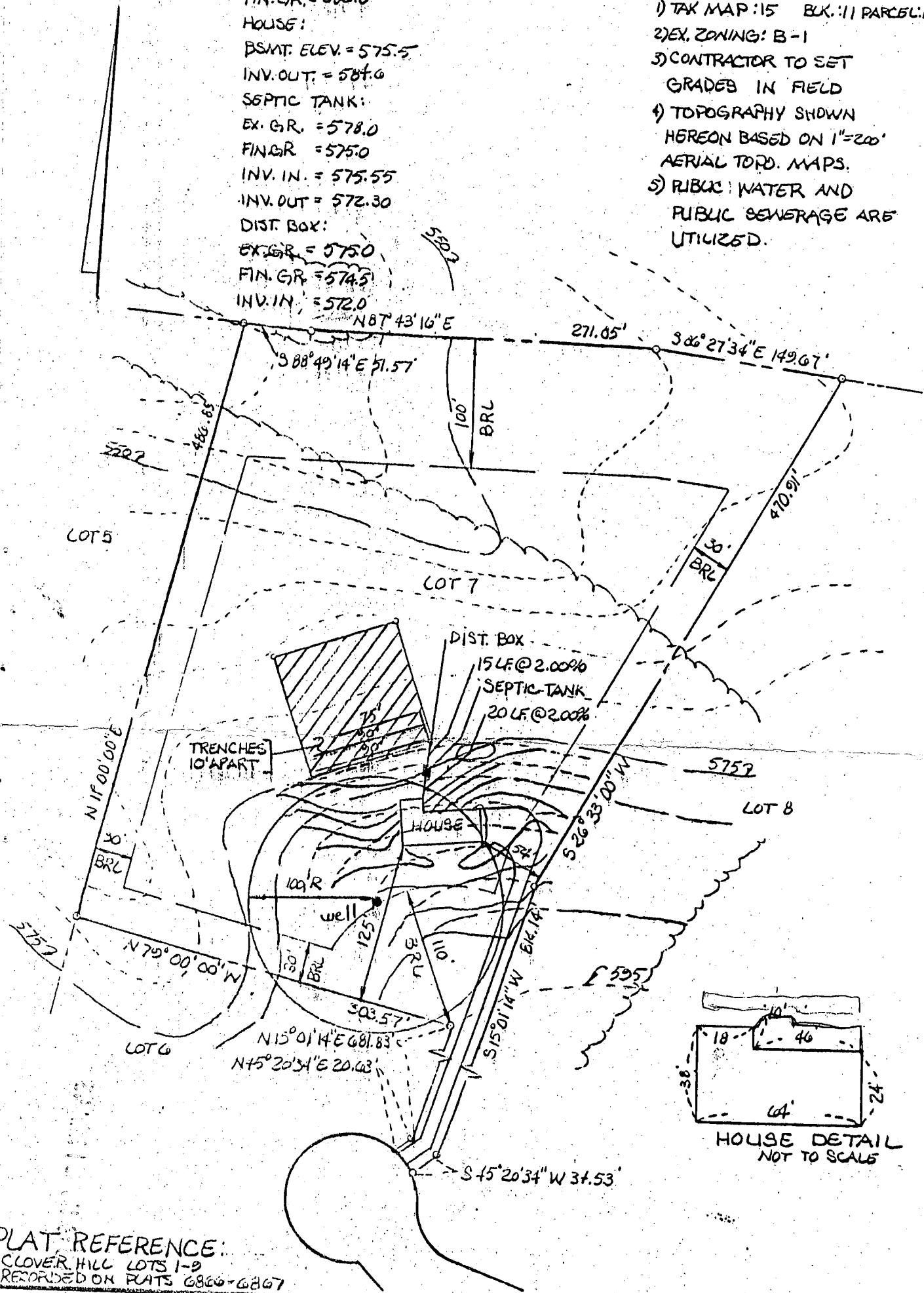
low holes silty/micaceous soil
 silty loam in high holes
 Added extra hole because of insufficient area.

REMARKS
 TYPE OF SOIL

TESTED BY B. Dwyer ALSO PRESENT Skip/Scott

WELL:
 EX. GR. = 580.0
 FIN. GR. = 580.0
 HOUSE:
 BSMT. ELEV. = 575.5
 INV. OUT. = 584.0
 SEPTIC TANK:
 EX. GR. = 578.0
 FIN. GR. = 575.0
 INV. IN. = 575.55
 INV. OUT. = 572.30
 DIST. BOX:
 EX. GR. = 575.0
 FIN. GR. = 574.5
 INV. IN. = 572.0

- NOTES
- 1) TAX MAP: 15 BLK.: 11 PARCEL: 14
 - 2) EX. ZONING: B-1
 - 3) CONTRACTOR TO SET GRADES IN FIELD
 - 4) TOPOGRAPHY SHOWN HEREON BASED ON 1"=200' AERIAL TOPO. MAPS.
 - 5) PUBLIC WATER AND PUBLIC SEWERAGE ARE UTILIZED.



PLAT REFERENCE:
 CLOVER HILL LOTS 1-9
 RECORDED ON PLATS 6866-6867

TITLE: GRADING STUDY			
PROJECT: CLOVER HILL FARMS LOT-7			
LOCATION: TAX MAP: 15 PARCEL: 14 3 RD. ELECTION DISTRICT HOWARD CO., MD.			
SCALE: 1" = 100'	DESIGNED BY: J.T.N.	DRAWN BY: J.CO.	CHECKED BY: D.R.
			DATE: DEC., 1986
FIELD BOOK:	PAGE NO.:	JOB NO.: 86243	DRAWING NO.: 1 OF 1

boender associates
 inc.
 consulting engineers
 land surveyors
 land planners

COURTHOUSE SQUARE
 3565 ELLICOTT MILLS DRIVE
 ELLICOTT CITY, MD. 21043
 (301) 465-7777

B 1 2741 SEQUENCE NO. (OEP USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

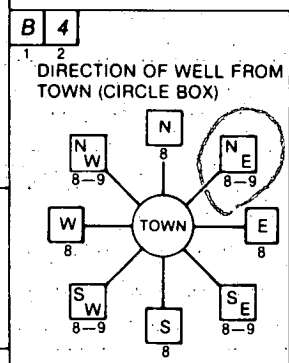
STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

OEP PERMIT NUMBER
HC-91-1225
 fill in this form completely

Date Received 4/1/84
 OWNER INFORMATION
 Last Name Wood Owner First Name Thomas
 Street or RFD 5017 Guchon Rd
 Town Columbia State MD Zip 21044

B 3 LOCATION OF WELL
 COUNTY Howard
 SUBDIVISION Clayton Hill Farm
 SECTION 44 LOT 48
 NEAREST TOWN West Friendship
 MILES FROM TOWN (enter 0 if in town) 0 M 1

DRILLER INFORMATION
 Driller's Name Ronald Keizer License No. 80
 Firm Name Trinity County
 Address 1404 Frederick of Lisbon
 Signature Ronald Keizer Date 2/7/85



NEAR WHAT ROAD Clayton Hill Dr
 ENTER FT or MI 0.7

B 2 WELL INFORMATION
 APPROX. PUMPING RATE (GAL. PER MIN.) 2
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

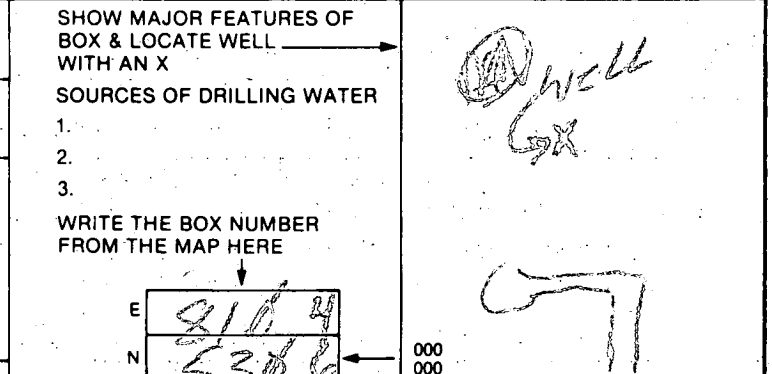
USE FOR WATER (CIRCLE APPROPRIATE BOX)
 HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
 PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH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

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 COUNTY NAME Howard COUNTY NO. A 36283
 OEP SIGNATURE _____ STATE HEALTH INSERT S
 DATE ISSUED 10/23/84 CO-SIGNATURE R. Wilson EXP. DATE 01/21/87
 NORTH GRID 526000 EAST GRID 081400

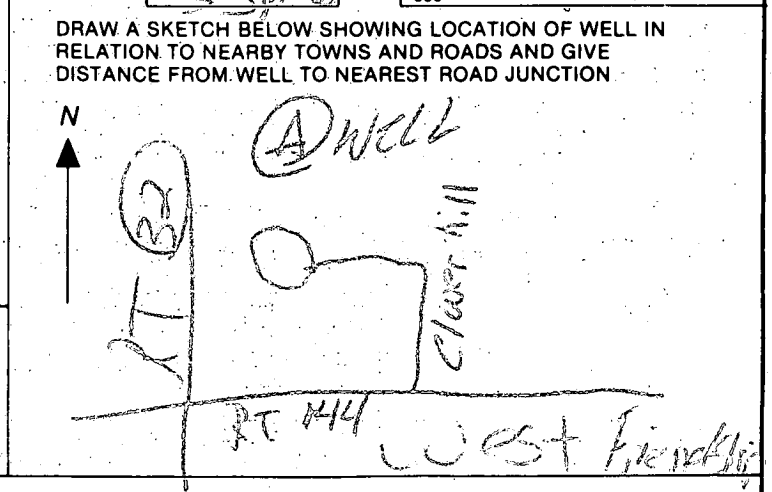
APPROXIMATE DEPTH OF WELL 200 FEET

APPROXIMATE DIAMETER OF WELL 6 NEAREST 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 _____



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)
 APPROP. PERMIT NUMBER _____ GAP _____
 FORCE 12 WRITE INITIALS IN BOX HC-91-1225
 PERMIT No. HC-91-1225

SPECIAL CONDITIONS

2/18/87

Location OK (as per plot)

45' open hole

1 casing (3' above ground)

logs cement

No one
showed for
scheduled
ground or P.T.

2/20/87 sample dropped
OK by driller
(49979)

C1 5358

SEQUENCE NO. (OEP 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 A 36283

DATE RECEIVED

7/1/86

DATE WELL COMPLETED

2/19/87

DEPTH OF WELL

22 200 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL"

HO-81-1725

OWNER

SMALLWOOD

THOMAS

STREET OR RFD

SPAWERHILL DR.

TOWN

WEST FRIENDSHIP

SUBDIVISION

CLOVER HILL

SECTION

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	
Top soil	0	2	
sand	2	25	
sand & shells	25	45	
mica	45	60	✓
White & Brown rock	60	65	✓
mica	65	200	✓

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 20 NO. OF POUNDS 1880

GALLONS OF WATER 120

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 05 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 60

OTHER CASING (if used)

diameter inch depth (feet) from to

screen type or open hole insert appropriate code below

ST BR HO STEEL BRASS OPEN HOLE PL OT PLASTIC OTHER

C2

DEPTH (nearest ft.)

1	40	45	200
2			
3			

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

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.) WQ 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 100

WATER LEVEL (distance from land surface)

BEFORE PUMPING 40

WHEN PUMPING 27

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:

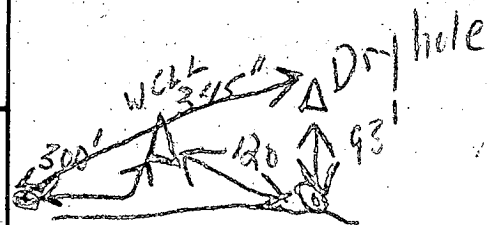
CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height)

LAND SURFACE (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 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. 170

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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