

10/21/86
ASAP

03-309533

APPROVED
10/21/86
P 57877 RH
A 30958

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH

992-2330
461-9933

INDEXED

ELLICOTT CITY

DISTRICT 3rd

DATE 10/16/86

{ I.C.O.P. issued only }
Time expired

Dennis Feaga IS PERMITTED TO INSTALL ALTER

ADDRESS 1625 Henryton Road, Marriottsville, Maryland 21104 PHONE 442-5623

SUBDIVISION Thomas Parton ROAD 1641 Henryton Road LOT 2

PROPERTY OWNER Harry Sowers

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 - 158 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 9 feet below original grade. Effective area begins at 3 feet below original grade. 6 feet of stone below distribution pipe.

LOCATION - Start the trench 175 feet from the front lot line and 170 feet from the left side of the lot as seen when facing the lot from the dirt road. Run the trench toward the left side of the lot as seen when facing the lot from the dirt Road.

NOTE - No trench to exceed 100 feet in length. If more than one trench used, a distribution box is required. Call for inspection of trench(s) before and after gravel is installed. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank.

McG

BLDG. PERMIT SIGNED

AND RETURNED 6-17-98

Serial # B00112474
above general pmt

PLANS APPROVED BY C. Williams DATE 10/15/86

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: 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.

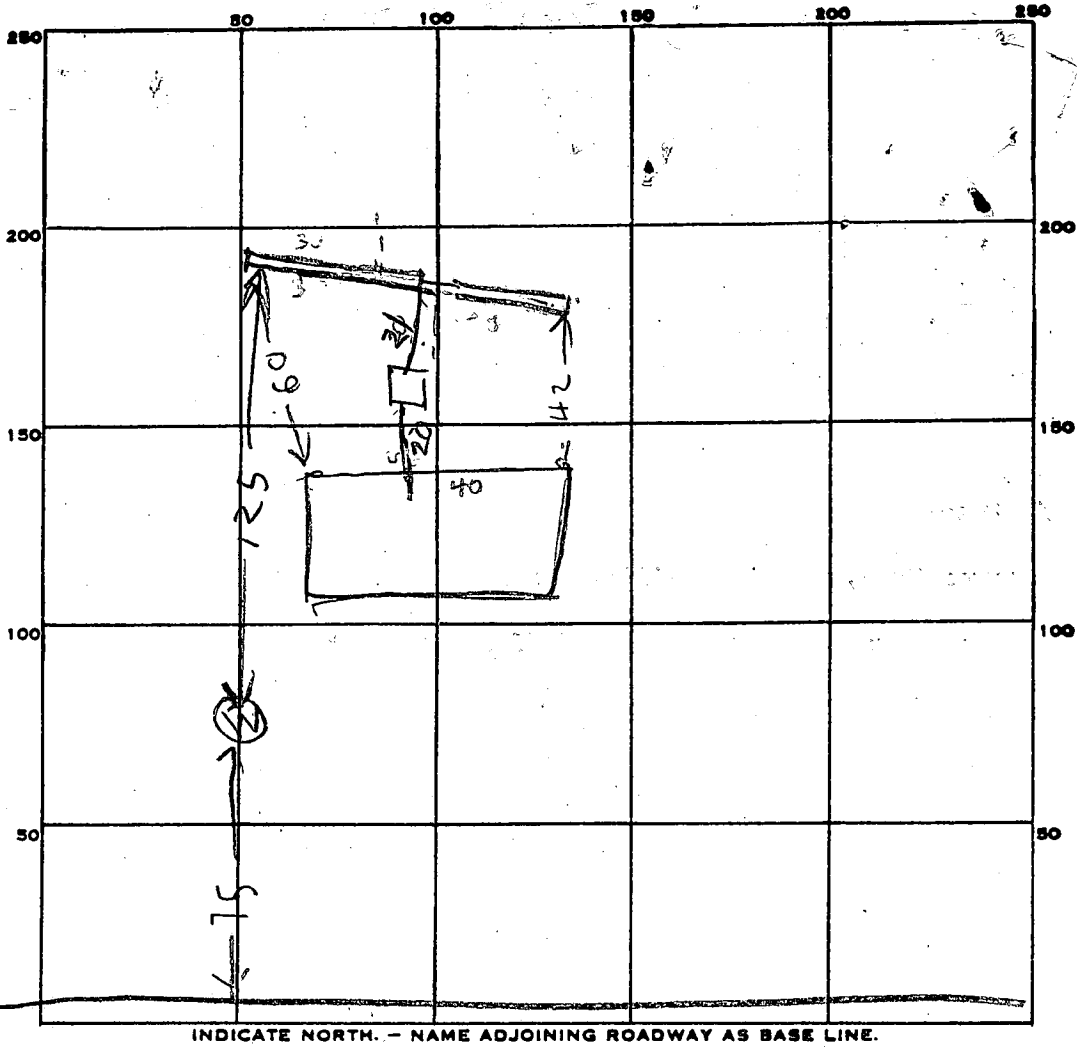
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA. OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

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

*CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

A 30958



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

158
673
74

158

PERMIT CARD _____

SEPTIC TANK, LEVEL OK 1000

CLEANOUTS _____

DISTRIBUTION BOX, LEVEL _____

TILE FIELD, DEPTH

#1	#2
9	9

 FT. TRENCH WIDTH

#1	#2

 FT.

GRAVEL DEPTH

#1	#2
6	6

 IN. TOTAL LENGTH

#1	#2
30	48

 FT.

NUMBER OF TRENCHES 2 TOTAL BOTTOM AREA 468

42
42
8
78
30

SEEPAGE PITS, INSIDE DIAMETER _____ FT. DEPTH BELOW INLET _____ FT.

ABSORBENT AREA _____ SQ. FT.

REMARKS 10/21/86 - TRENCH DUG ADD REST OF STONE TO TRENCHES

& CONNECT TANK & HOUSE & TRENCHES RH

10/21/86 STONE ADDED & PIPES CONNECTED R1'

DATE SYSTEM APPROVED 10/21/86

INSPECTOR Raymond Hodges

PRELIMINARY

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 30958

P _____

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES

P.O. BOX 476 ELLICOTT, MARYLAND 21043
TELEPHONE: 992-2330

DISTRICT 3rd

DATE 9/29/80

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 Thomas G. Parton, Sr. Harry Sowers

ADDRESS 1645 Henryton Road, Marriottsville, Md. PHONE 233-2300 (x-745 & 749)

PROPERTY LOCATION:

SUBDIVISION minor subdivision 1641 HENRYTON Rd. LOT NO. (?) 2

ROAD AND DESCRIPTION Henryton Road - Route 99, turn right on Henryton Road, 1/2 mile approximately back Henryton Road make right hand turn on gravel road, last house on left hand side.

SIZE OF LOT 3 acres 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/ Otis Ketterman for Thomas G. Parton

BLDG. PERMIT SIGNED
AND RETURNED 6/26/84 SA

APPROVED BY S. G. Kiel FOR _____ DATE # 71383

REJECTED BY _____ FOR _____ DATE _____

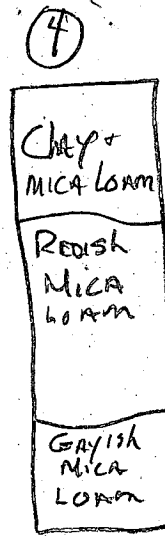
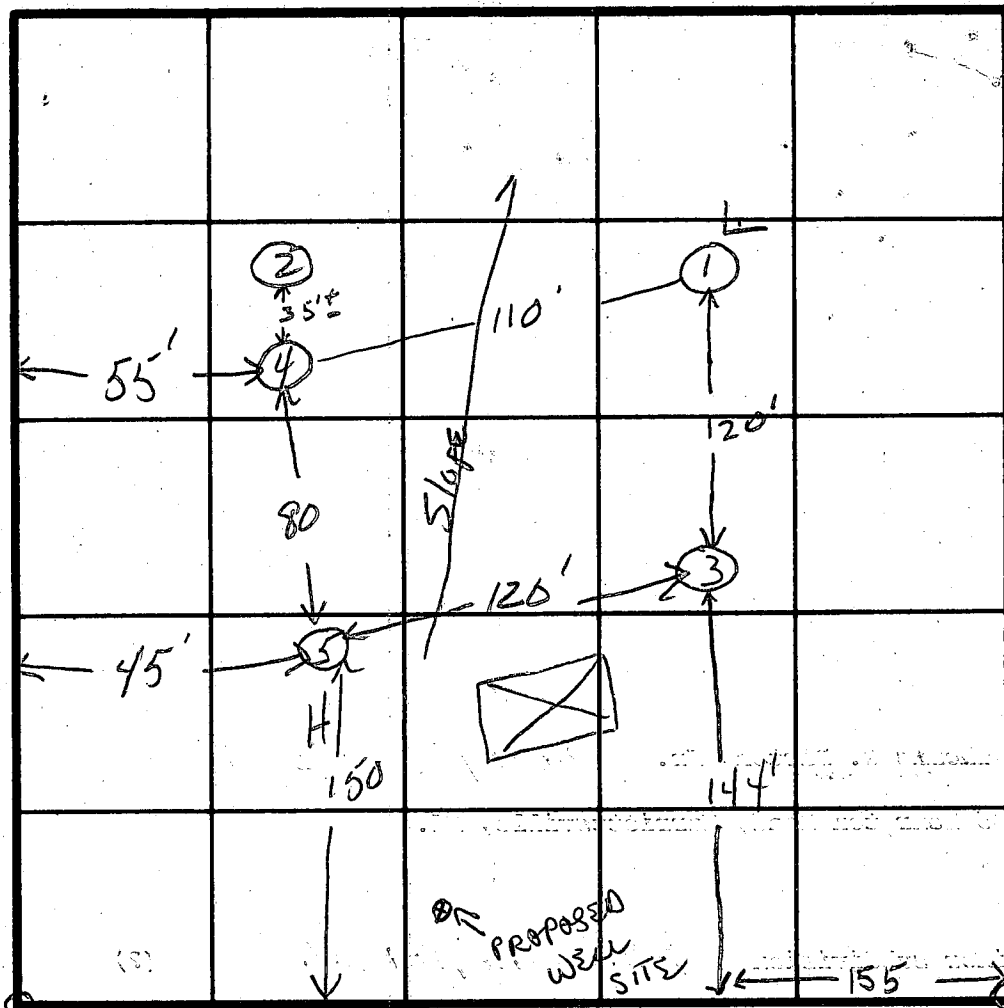
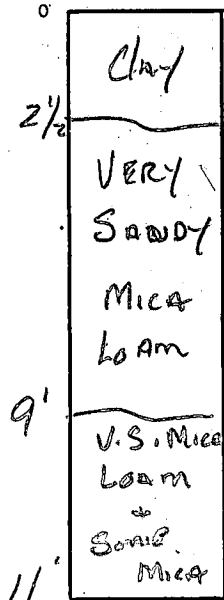
HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING Hold for Certified Holes & 10-14-80
10/21/80 Perc OK per F.S. 9/25/84 - Spec Written RH

THIS IS NOT A PERMIT

Lot #
20

SOIL PROFILE

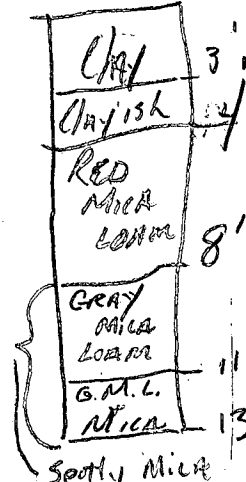
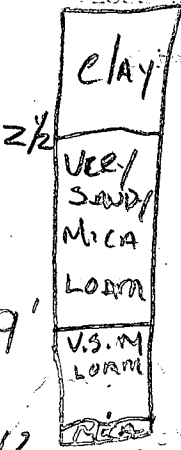


INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Dirt Rd

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-14-80	1S	2 1/2'	10:33	10:33:30	10:33:30	10:35	1 1/2
	1D	11'	10:35			10:38	⊗
	2S	3'	11:25	XX	XX	XX	FAIL
	2D	12'	11:26			11:30	*
	2SA	4 1/2'	11:39	SLOW	PERC	XXXXX	XY
	2SB	5'	12:03			XXXX	FAIL
	3S	3'	12:35	12:36	12:36	12:40	4 min
	3D	12'	12:57	12:58	12:58	1:01	3 min
	4S	4'	1:33	1:38	1:38	1:53	15 min
	4D	13'	1:37	1:39	1:39	1:44	5 min
	5S	4'	2:16	2:17	2:17	2:20	3 min
	5D	13'	2:21	2:26	2:26	2:35	9 min

⊗ 3 min to Drop Hole to Dangerous TOPSEC
* 4 min to Drop Hole UNSAFE



REMARKS OPEN FIELD CORNERS STAKED PER OWNER
CENTER LOT LINE, STAKED PER OWNER

TYPE OF SOIL _____

TESTED BY SK + JS ALSO PRESENT OTIS KETTERMAN

C1 **2456** 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-30958**

DATE Received: [] [] [] [] [] [] DATE WELL COMPLETED: **103185** (15 20)
 Depth of Well: **600** (22 26) (TO NEAREST FOOT)
 PERMIT NO. FROM "PERMIT TO DRILL WELL": **H0-81-1197** (28 37)

OWNER: **SEWERS HARRY T.** (last name first name)
 STREET OR RFD: **TUNNEL RD** TOWN: **WEST FRIENDSHIP**
 SUBDIVISION: **PARTON** SECTION: [] LOT: **2**

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	
#4 rolling ground & gravel	0	18'	
flint	18'	34'	
brown & gray shale	34'	69'	
water			
gray shale	69'	93'	
brown shale & flint	93'	104'	
gray shale	104'	116'	
flint	116'	124'	
water			
flint & gray shale	124'	274'	
flint	274'	278'	
water			
gray shale & flint	278'	335'	
flint	335'	342'	
water			
alt. flint & gray shale	342'	573'	
water			
flint & gray shale	573'	600'	
#1 dry hole backfilled & sealed	0	300'	
#2 dry hole backfilled & sealed	0	300'	
#3 dry hole backfilled & sealed	0	425'	

GROUTING RECORD
 WELL HAS BEEN GROUTED (Circle appropriate box) **Y** (44) **N** (44)
 TYPE OF GROUTING MATERIAL: **CEMENT** (45) **BENTONITE CLAY** (46) **BC** (45, 46)
 NO. OF BAGS: **7** NO. OF POUNDS: **692**
 GALLONS OF WATER: [] [] [] []
 DEPTH OF GROUT SEAL (to nearest foot): from **0** ft. to **18** ft. (48 58) (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below: **ST** (STEEL) **CO** (CONCRETE) **PL** (PLASTIC) **OT** (OTHER)
 MAIN CASING TYPE: **ST** (60) **CO** (63) **PL** (66) **OT** (70)
 Nominal diameter top (main) casing (nearest inch): **6** (61) Total depth of main casing (nearest foot): **600** (66)

OTHER CASING (if used)
 diameter inch: [] [] depth (feet) from: [] [] to: [] []

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

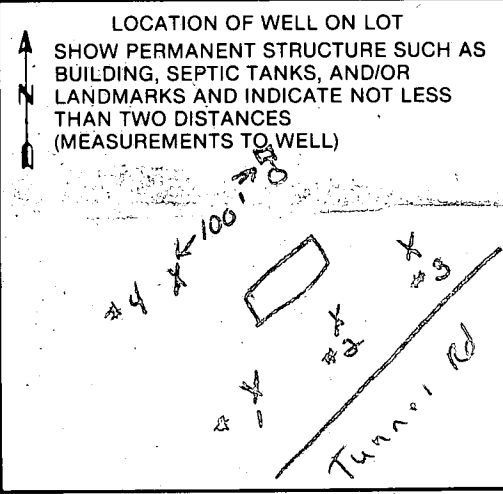
C2
 DEPTH (nearest ft.):
 1 **40** (8 9) 2 **20** (11 15) 3 **600** (17 21)
 4 [] (23 24) 5 [] (26 30) 6 [] (32 36)
 7 [] (38 39) 8 [] (41 45) 9 [] (47 51)
 SLOT SIZE 1 [] 2 [] 3 []
 DIAMETER OF SCREEN [] (56) [] (60) (NEAREST INCH)
 from [] to []

GRAVEL PACK []
 IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 [] (68)

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

C3
PUMPING TEST
 HOURS PUMPED (nearest hour) **8** (8 9)
 PUMPING RATE (gal. per min. to nearest gal.) [] [] [] [] (11 15)
 METHOD USED TO MEASURE PUMPING RATE: **watch bucket**
 WATER LEVEL (distance from land surface) BEFORE PUMPING: **30** (17 20) WHEN PUMPING: **340** (22 25)
 TYPE OF PUMP USED (for test): **A** (air) **P** (piston) **T** (turbine) **C** (centrifugal) **R** (rotary) **O** (other) **J** (jet) **S** (submersible)

PUMP INSTALLED
 DRILLER WILL INSTALL PUMP YES NO
 (CIRCLE YES OR NO)
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETE FOR ALL WELLS EXCEPT HOME USE
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: **S** (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 (nearest foot) **-** below } [] (50 51)



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. **064**
 DRILLERS SIGNATURE: *W. Reichart*
 (MUST MATCH SIGNATURE ON APPLICATION)
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

B 1 3177

SEQUENCE NO. (OEP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

please print or type

OEP PERMIT NUMBER

HO-81-1197

fill in this form completely

Date Received 10/31/85

093085

OWNER INFORMATION

Sowers Harry T

502 Rosemere Ave

Silver Springs MD 20904

B 3

LOCATION OF WELL

Howard

Parton

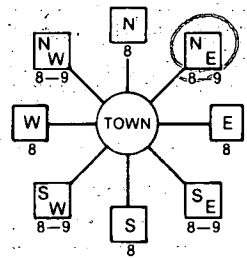
SECTION LOT 2

West Friendship

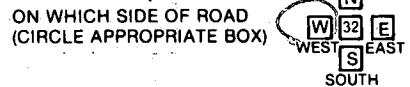
MILES FROM TOWN 4 MI

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Tunnel Rd.



20 DISTANCE FROM ROAD

ENTER FT or MI

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME A-30158 COUNTY NO.

OEP SIGNATURE DATE ISSUED

1100385 CW... 04/03/86

NORTH GRID 544000 EAST GRID 0821000

WELL INFORMATION

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

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D 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)

APPROXIMATE DEPTH OF WELL 250 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

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY
D 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 G A P

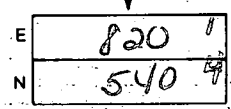
FORCE CW PERMIT No. HO-81-1197

SPECIAL CONDITIONS

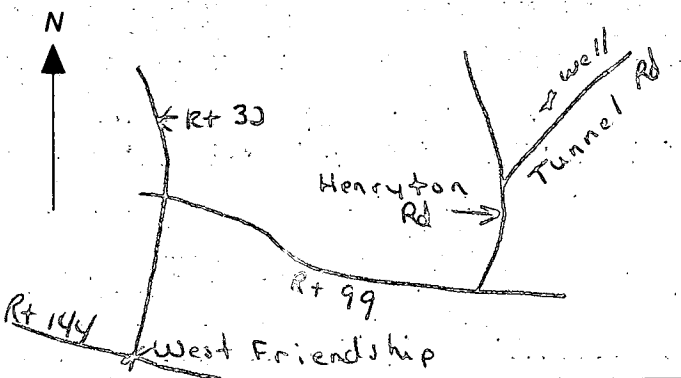
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

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

WRITE THE BOX NUMBER FROM THE MAP HERE



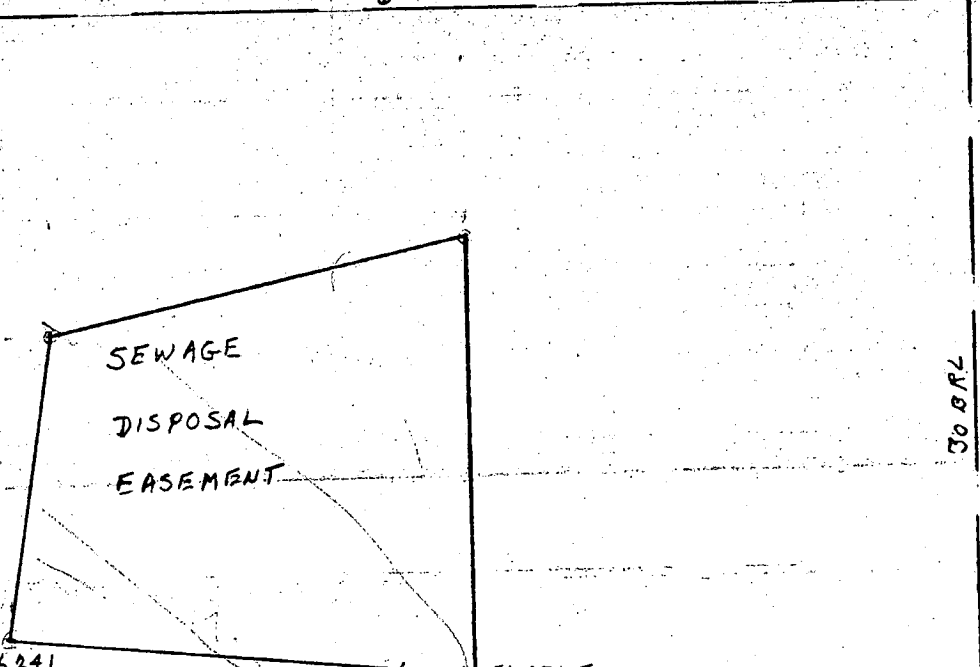
DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



PARTON SUBDIVISION

341.97'
LOT 2
3.00 AC.

60' BRL



30' BRL

30' BRL

364.55'

396.57'

EL 241

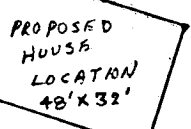
EL 231.5

3 DRY HOLES
OK TO DRILL HERE
PBE AREA TO BE ADJUSTED, ACCORDINGLY
10/22/85 CW/llh

EL 314.0

EL 307.5

~ 112'



EL 355.5'

EL 349.5

43'

EL 443'

WELL SITE #1
WELL SITE #2
3RD WELL SITE OK 10/18/85 CW

PROPOSED WELL LOCATION 10/17/85

55' BRL

25' 2/3/85

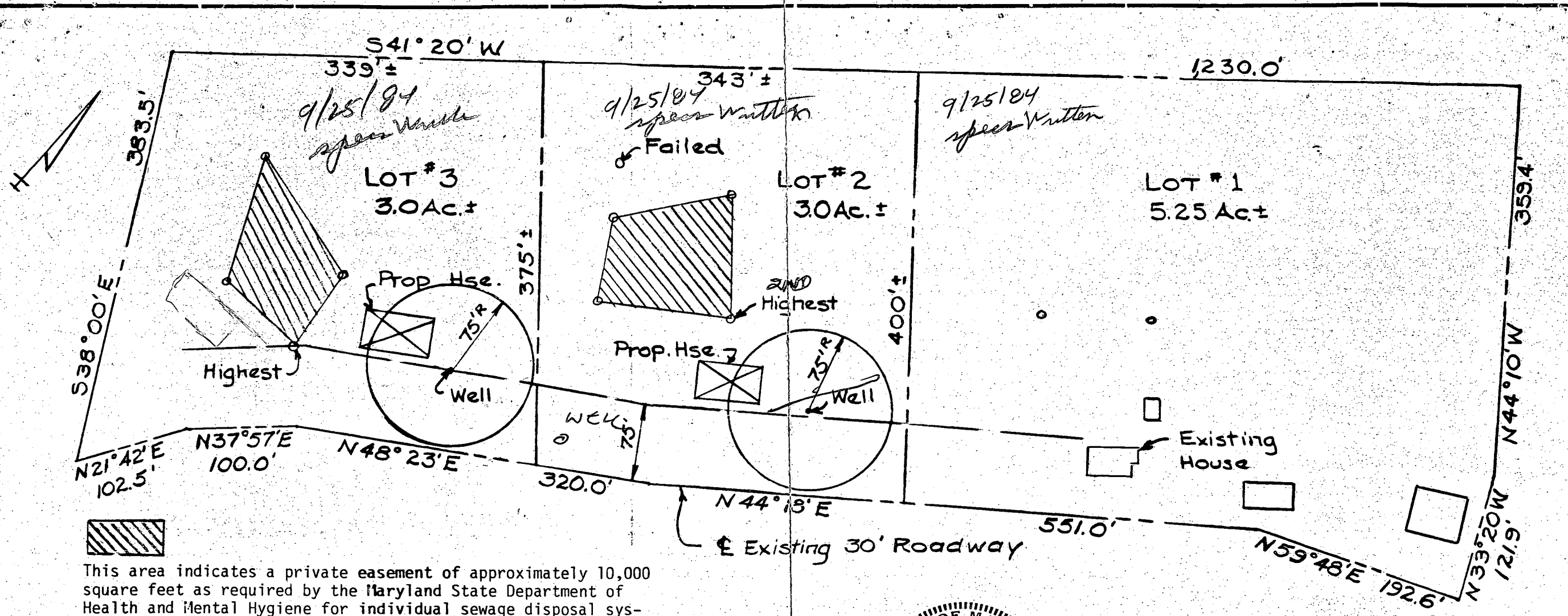
25' ACCESS EASEMENT
EDGE OF ROAD

13.1M RFF = 500"

TUNNEL RD. 30FT WIDE

343.54'

SCALE 1" = 50'

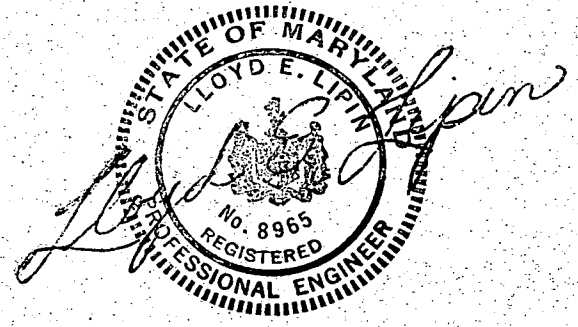


This area indicates a private easement of approximately 10,000 square feet as required by the Maryland State Department of Health and Mental Hygiene for individual sewage disposal systems. Improvements of any kind in this area are restricted until public sewage is available and serving any residential structures constructed on this site. This easement shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant variances for encroachments into the private sewage easement. Recordation of a modified sewage easement shall not be necessary.

Percolation test holes shown hereon have been field located and shown as "o".

The lots shown hereon comply with the minimum ownership width and lot areas as required by the Maryland State Department of Health and Mental Hygiene.

There are no wells or septic systems within one hundred feet of the property lines.



APPROVED: For Private Water and Private Sewage Systems.
 Howard County Health Department

signed's approved 2/19/81
 County Health Officer Date

PERCOLATION CERTIFICATION
 PLAT FOR
 THOMAS PARTON
 1645 HENRYTON ROAD
 HOWARD COUNTY, MD.

DATE: Nov. 14, 1980 SCALE: 1"=100'

60' BRL

NOTE!

SHIF
AFTER
WATER

SEWAGE
DISPOSAL
EASEMENT

6/24/86
Final location
OK
SA

367.55

30' BRL

170'

(EL 241)

R=100'

PEAK HOLE 3
(EL 231.5") ORIGINAL
EL 195.5" DRYWELL

SEPTIC TANK 2
SEPTIC TANK 235"
(OOE OF HOUSE) = 250

DOF
NO
NEXT

EL (317.5")

ENVERT ELAV (OUT OF)
INVERT ELAV (INT)
INVERT ELAV
EL 277.5"

PROPOSED HOUSE
LOCATION
68' x 28'
1ST FLOOR EL 394
BASEMENT EL 286

GARAGE

ACTUAL WELL
EL 376"

(EL 352.5")
FINAL EL 376

(EL 316.5") 155'
FINAL EL 370

R=119'

PROPOSED WELL
(DRY WELL)
(EL 445)

55' BRL

79'

45'

25'

343.54'

TUNNEL ROAD

341.97'

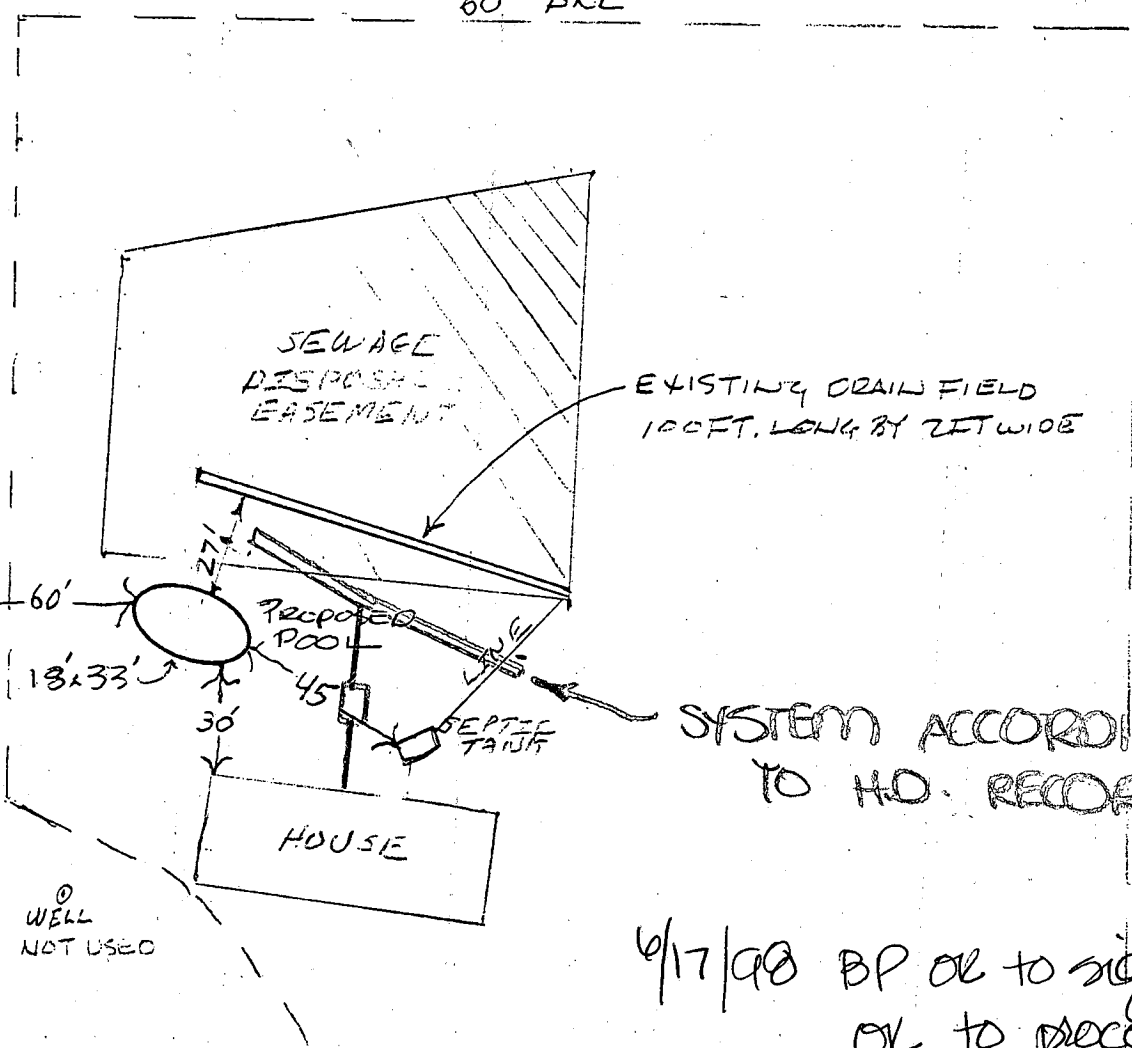
60' BRL

30' BRL

30' BRL

396.37

364.55



SYSTEM ACCORDING TO H.D. RECORDS

6/17/98 BP OR to sign -
OR to proceed
(TXS)

55' BRL

25' ACCESS EASEMENT
EDGE OF ROAD

343.54'

TUNNEL RD. 30' WIDE

SCALE 1" = 50'

HARRY T. + JANET E. SEWERS
1641 HENRYTON RD
MARIOTTVILLE MD. 21104

Page 1 of 1
 Date 10/31/85

Review OK 11-7-85 E. Walker

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO²- 81-1197
 Location of property (road) TUNNEL RD
 Subdivision PARTON Lot 2 Block Plat Sec.
 Well Driller W.W. REICHART Owner SAWERS, HARRY T.

Depth of well 600'
 Distance of measuring point (M.P.) above ground surface
 Static water level (S.W.L.) below M.P. 30

I. High rate pumping -- reservoir drawdown

Time pump started 8:00 AM Pumping rate 10 cpm
 Total time 2 1/4 hrs. to reach pumping water level 500' 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 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
8:00	30'	30 sec		10
8:15	80'	"		10
8:30	150'	"		10
8:45	235'	"		10
9:00	320'	"		10
9:15	384'	50 sec		6
9:30	430'	75 sec		4
9:45	468'	100 sec		3
10:00	490'	150 sec		2
10:15	500'	300 sec		1
10:30				
10:45				
11:00				
11:15				
11:30				
11:45				
12:00				
12:15				
12:30				
12:45				
1:00				
1:15				
↓	↓	↓		↓
4:30	500'	300 sec		1