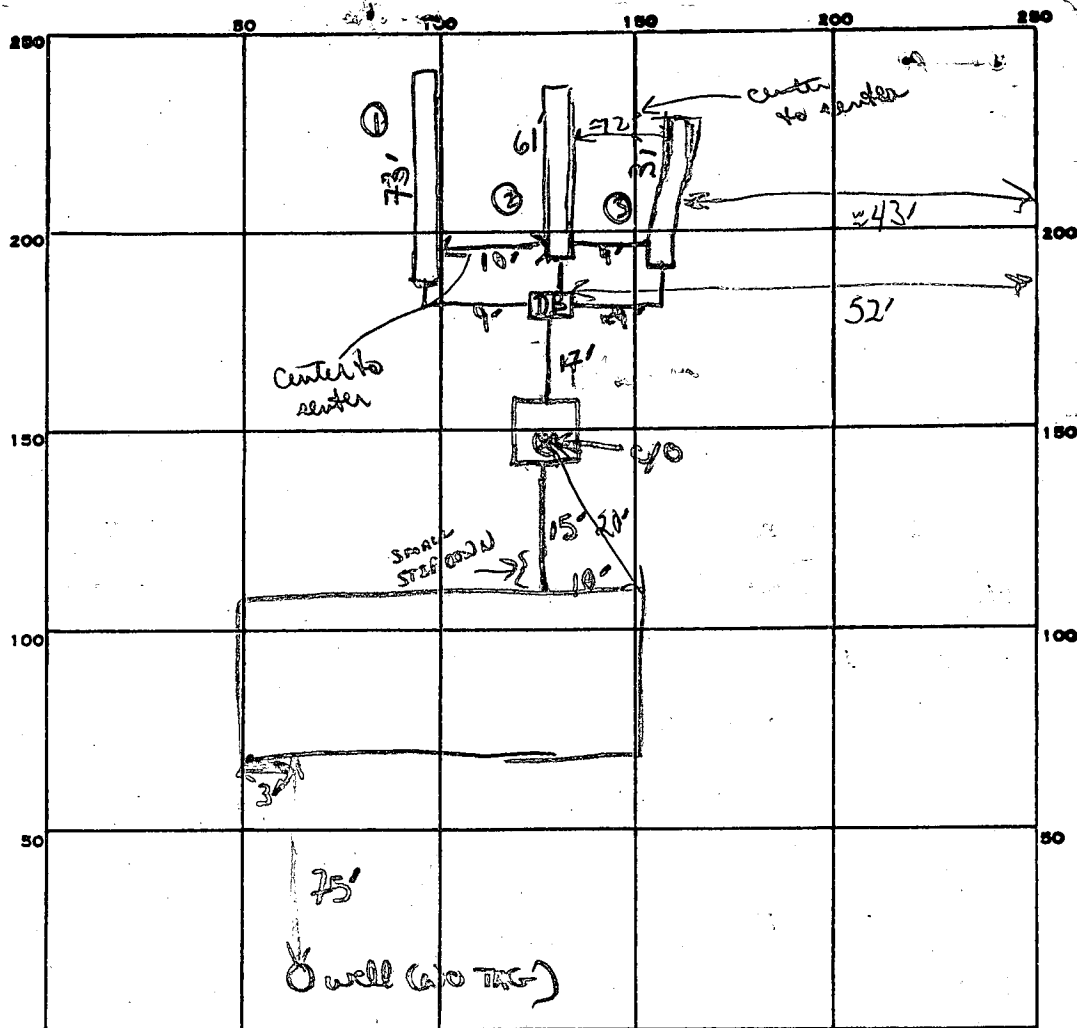


$$\begin{array}{r} 34592 \\ \hline A \end{array}$$



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

PERMIT CARD

SEPTIC TANK, LEVEL

DISTRIBUTION BOX, LEVEL

TILE FIELD, DEPTH

TRENCH WIDTH

GRAVEL DEPTH

TOTAL LENGTH

NUMBER OF TRENCHES

TOTAL BOTTOM AREA

SEEPAGE PITS, INSIDE DIAMETER

DEPTH BELOW INLET

ABSORBENT AREA

REMARKS

11/21/85 OK TO COVER S.T. & pipe from house to tank.

11/16/86 OK to go to 10 ft deep in trenches. OK to add stone pipe, paper to trench 1. OK to start trench #2 & 3

Told installers to expand distance between trenches 2+3 to at least 10'.

11/17/86 OK to cover trench #1

OK to add stone, pipe paper to trench 2+3

OK to cover all work

DATE SYSTEM APPROVED

INSPECTOR

255
3
763
MIN
21
100
61
5
305

11/17/86

R. Wilson

12/21/84 - 9:30 AM -
10/19/84
1:30 PM
Patterson

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 34592

P _____

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES

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

DISTRICT 1st

DATE 11/19/84

6D

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 Lou Nickman (K & K Excavating Company)

ADDRESS _____ PHONE Olen Ketterman 442-1336

PROPERTY LOCATION:

SUBDIVISION Talbot's Last Shift LOT NO. 6D

5093
ROAD AND DESCRIPTION Ilchester Road

SIZE OF LOT _____ TYPE BLDG. 3 or 4 Bedrooms
(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. /s/ Dean Patterson switched by Olen Ketterman

(SIGNATURE OF APPLICANT)

APPROVED BY C. Williams FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 12/21/84 PERC OK HOLD FOR CERTIFIED HOLD

PLAT

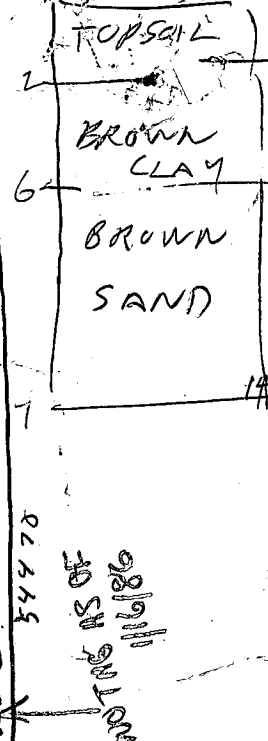
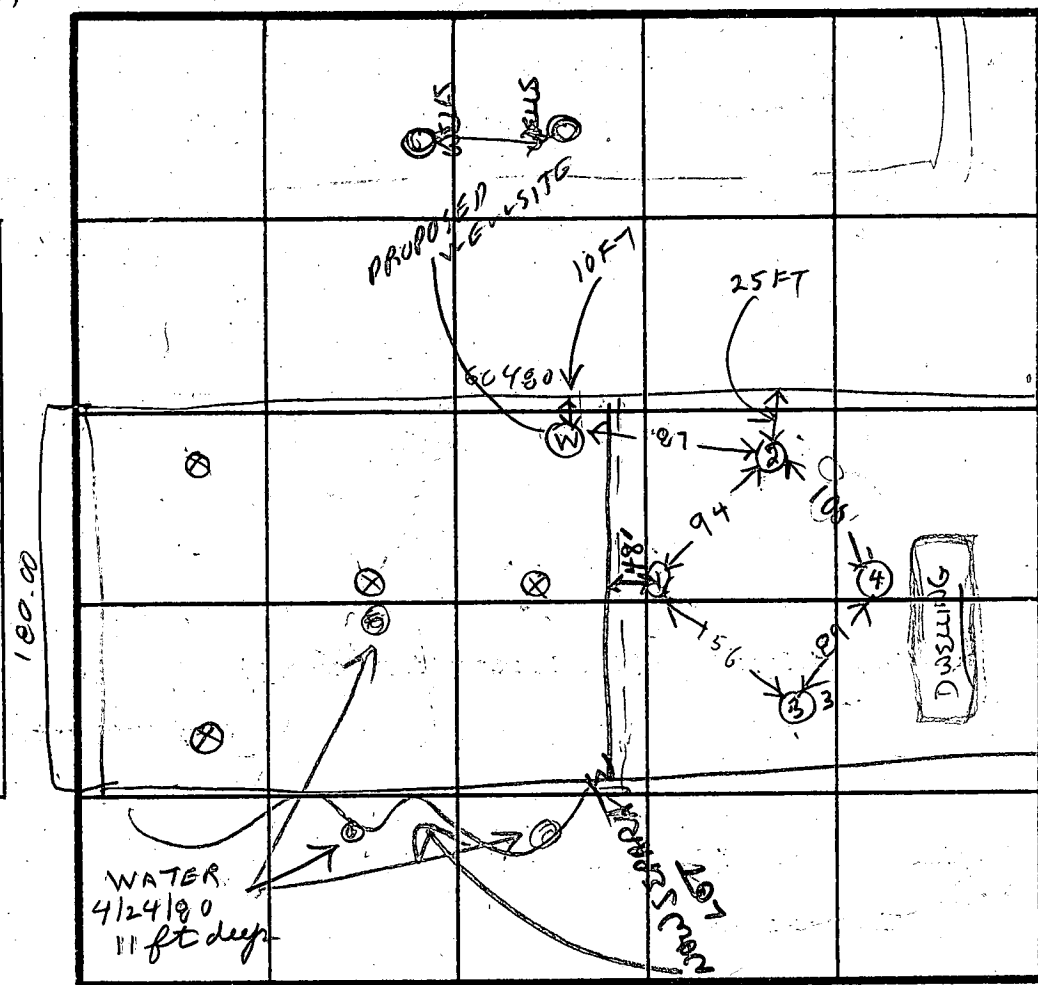
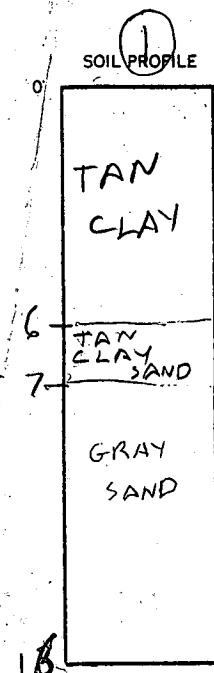
REVISED PLAT OK 4/17/85 C. Williams

B.P. #66995

THIS IS NOT A PERMIT

AND RETURNED

④



HOLE
ELEVATION

② = HIGHEST

③④ = MEDIUM

① = LOWEST

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
12/21/84	1S	7	1032	1046	1046	1125	1125
	1M	7 1/2	1133	1139	1139	1204	8
	1V	16	LOOKS	OK	BELOW	7 1/2 FT	
	2S	6	1101	1126	1st inch	19 men	
	2M	7	1141	1144	1144	1149	5
	2V	16	LOOKS	OK	BELOW	7 FT	
	3S	5 1/2	1128	1136	1136	1144	8
	3V	13 1/2	LOOKS	OK	BELOW	5 FT	
	4S	6	1210	1214	1214	1149	5
	4V	14	LOOKS	OK	BELOW	8 FT	

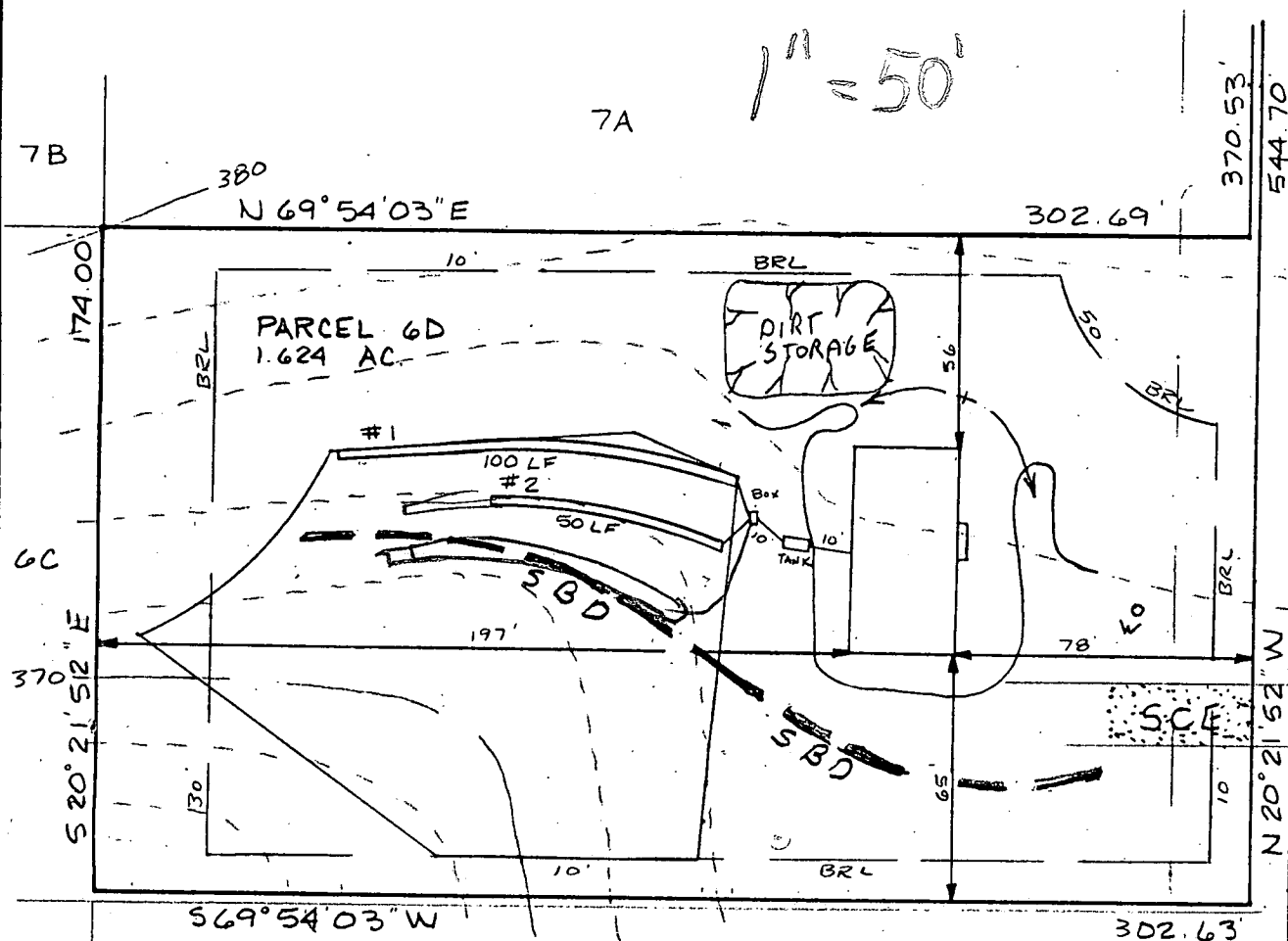
REMARKS TRENCH STARTING AT (3) RUNNING TOWARD (4)

TYPE OF SOIL:

TESTED BY B. HODGES

3 KETTERMAN S

B.P. # 66995



HOUSE:

FIRST FLOOR	378.0
BASEMENT	369.0
INVERT	371.96

SEPTIC TANK:

EXISTING GRADE	374.8
PROPOSED GRADE	376.0
INVERT IN	371.50 75
INVERT OUT	371.75 50

DISTRIBUTION BOX:

EXISTING GRADE	374.8
INVERT IN	371.4
INVERT OUT	371.3

<u>TRENCH:</u>	#1	#2
EXISTING	374.7	374.0
INVERT	371.2	370.5
BOTTOM	366.7	336.0
STONE	4.5	4.5
LENGTH	2.85	2.85
WIDTH	100' 2"	50' 2"

6B

H to T 100' x 10' 6A
 Timber 3" rise
 length 225'

TO ROAD EASEMENT

B.P. 66995

well quantity &

I certify the above measurements
 and elevations to be actual and true
 for this property.

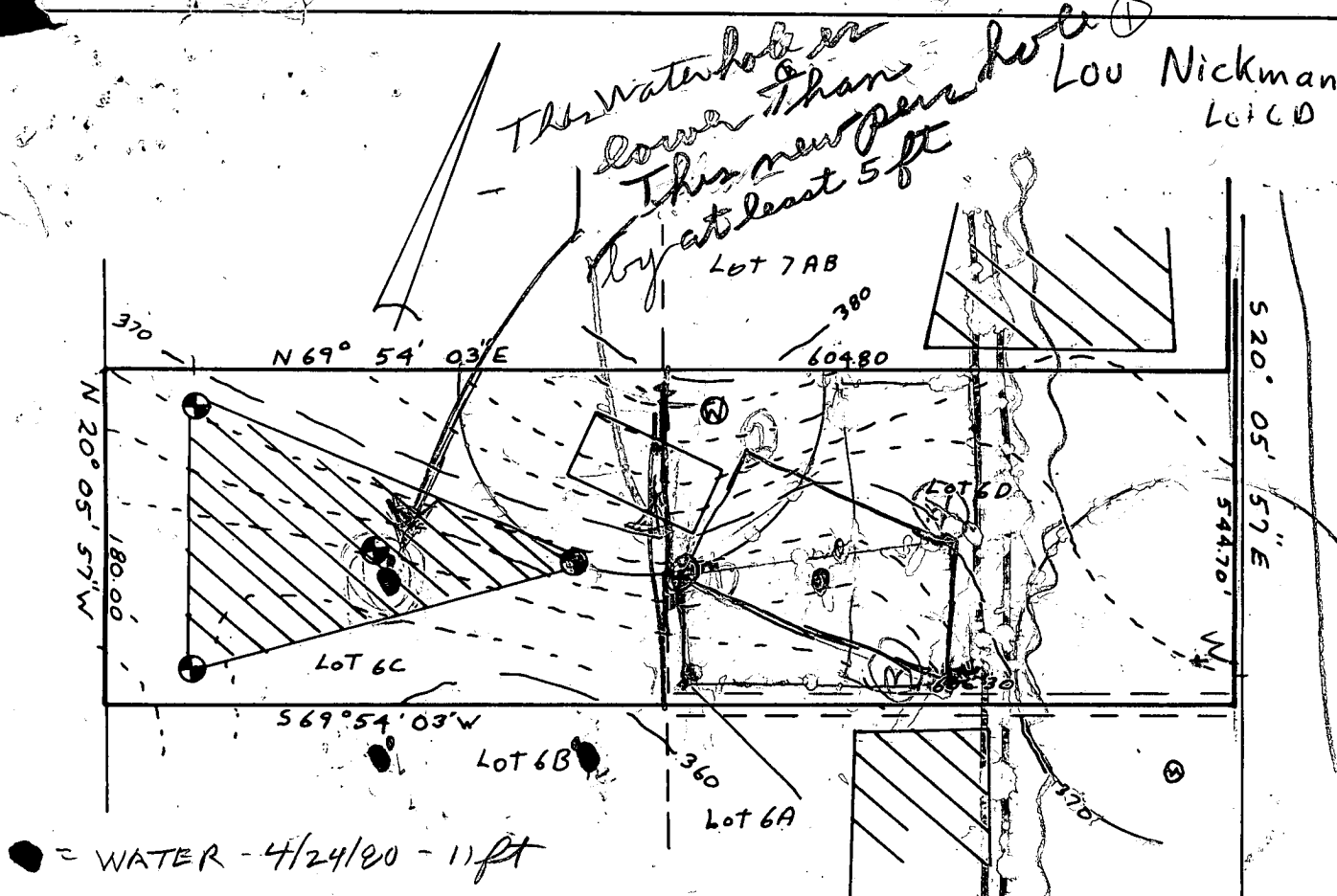
J. Carl Hudgins

PLOT PLAN
 PARCEL 6D
 TALBOT'S LAST SHIFT
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE 1" = 50' DATE 9/4/85

75

This water hole is lower than this new percolation hole by at least 5 ft

Lou Nickman
Lot 6D



● = WATER - 4/24/80 - 11 ft

"Only one home may be erected on the land contained by the group of parcels conveyed by the instant deed until such time as public sewer and water is available to this land, or the parcels pass new percolation tests, or other changes occur obviating the need to so limit building."



This area designates a private sewage easement of 10,000 square feet as required by the Maryland State Department of Health and Mental Hygiene for individual sewage disposal. Improvements of any nature in this area are restricted until public sewage is available. These easements 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 "●".

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.

Percolation areas and water wells for adjoining lots have been shown where pertinent.

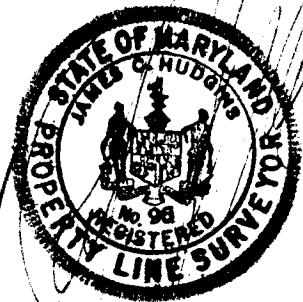
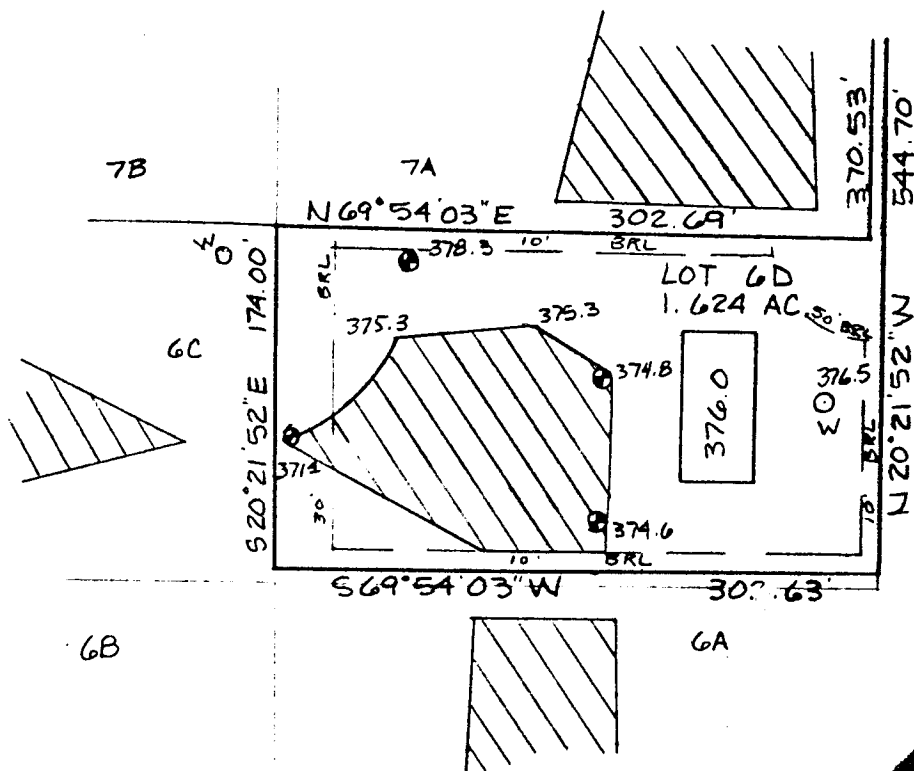
PERCOLATION TEST PLAT
PARCEL 6CD
TALBOT'S LAST SHIFT
PROPERTY OF
HOWARD ASSOCIATES
ILCHESTER ROAD
1st Election District
Howard County, Maryland
Scale 1"=100'
Date 5-28-80


APPROVED: For Private Water and Private Sewage Systems

James C. Nudding
County Health Officer

6-5-81
Date

NTT Associates
Suite 307, Clark Bldg.
Columbia, MD 21044
321-0307



 This area designates a private sewage easement of 10,000 square feet as required by the Maryland State Department of Health and Mental Hygiene for individual sewage disposal. Improvements of any nature in this area are restricted until public sewage is available. These easements 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 "⊕".

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.

Percolation areas and water wells for adjoining lots have been shown where pertinent.

APPROVED: For Private Water and Private Sewage Systems

County Health Officer

Date

PERCOLATION TEST PLAT
PARCEL 6D
TALBOT'S LAST SHIFT
PROPERTY OF
HOWARD ASSOCIATES
ILLCHESTER ROAD

1st Election District
Howard County, Maryland
Scale 1"=100'
Date 4/17/85

NTT Associates
101 Sterrett Place
Columbia, MD 21044
442 2631

James Byler

4-29-85

7.7

B 1	8862	SEQUENCE NO. (OEP USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL	OEP PERMIT NUMBER 40-81-1156
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		please print or type		
Date Received 082085 082085 8 13		OWNER INFORMATION 15 Last Name: KNICKMAN 34 Owner: LEW First Name: RO 36 Street or RFD: 7230 MONTGOMERY RD 55 57 Town: ELKRIODGE 70 State 72: MD 77 Zip 76: 21227		
DRILLER INFORMATION Driller's Name: Ralph Mayne 273 77 License No. 80 Firm Name: Ralph Mayne (well drilling) Address: 9120 Brown Church Rd. Mt. Airy Signature: Ralph Mayne 8/15/85 Date:		LOCATION OF WELL 1 2 HOWARD 8 COUNTY 21 TALBOTS LAST SHIFTS 23 SUBDIVISION 42 SECTION 44 46 LOT 60 48 50 ELLICOTT CITY 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 4 73 76 77 78 MI		
WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20		ILLCHESTER Rd. 11 NEAR WHAT ROAD 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH N WEST W 32 E SOUTH S 34 37 DISTANCE FROM ROAD ENTER FT or MI 38 39		
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT) <input type="checkbox"/> PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL) <input type="checkbox"/> TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL COUNTY NAME: HOWARD COUNTY NO. A 34592 OEP SIGNATURE: _____ STATE HEALTH INSERT S. 41 DATE ISSUED: 082785 SIGNATURE: Stephen Abel 02-27-86 NORTH GRID: 506000 EAST GRID: 0864000 43 48 CO-SIGNATURE 50 55 57 63		
APPROXIMATE DEPTH OF WELL 150 24 28 FEET APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH		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 860 4 N 500 6 LOCATION OK 26' CASING 1' ABIGROUND 22' OPEN 8 - BAGS CEMENT LEFT SITE BEFORE GRout COMPLETED 9/5/85 Cured		
METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN 30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary) 37 CABLE REVERSE-ROTARY Drive-POINT other _____		REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED 39 <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY <input type="checkbox"/> THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52		
Not to be filled in by driller (OEP USE ONLY) APPROP. PERMIT NUMBER _____ 54 GAP _____ 63 FORCE 5A WRITE INITIALS IN BOX PERMIT NO. 40-81-1156 67 68 70 71 72 73 74 75 76 77 78 79		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION N Ellicott City ILLCHESTER RD. 100 ft well 103 10-2-85		
SPECIAL CONDITIONS				

C1 2423 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 TYPETHIS REPORT MUST BE SUBMITTED WITHIN
45 DAYS AFTER WELL IS COMPLETED.COUNTY
NUMBER

A 34592

DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO.
FROM "PERMIT TO DRILL WELL"

8 13

090585

22 269 26
(TO NEAREST FOOT)40-81-1156
28 29 30 31 32 33 34 35 36 37

OWNER Knickman Lew

first name

TOWN Elk Ridge Md.

STREET OR RFD

SUBDIVISION Talbot's Last Shift

SECTION

LOT

6-C

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS
PENETRATED, THEIR COLOR, DEPTH,
THICKNESS AND IF WATER BEARINGDESCRIPTION (Use
additional sheets if needed)

FEET

FROM

TO

Check
if water
bearing

Top So. L

0 2

Sandy

2 17

Sand Stone

17 30

Mica

30 55

Sand Stone

55 60

Mica

60 260

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)yes no
Y N
44 44

TYPE OF GROUTING MATERIAL

CEMENT CM

BENTONITE CLAY BC

NO. OF BAGS

NO. OF POUNDS

GALLONS OF WATER

DEPTH OF GROUT SEAL (to nearest foot)

from 0 52 ft. to 25 58 ft.
(enter 0 if from surface)casing
types
insert
appropriate
code
below

CASING RECORD

ST CO
STEEL CONCRETE
PL OT
PLASTIC OTHERMAIN
CASING
TYPENominal diameter
top (main) casing
(nearest inch)Total depth
of main casing
(nearest foot)

PL

6

27

E
A
C
H
C
A
S
I
N
G

OTHER CASING (if used)

diameter depth (feet)
inch from toscreen type
or open hole
insert
appropriate
code
below

SCREEN RECORD

ST BR HO
STEEL BRASS OPEN
BRONZE HOLE
PL OT
PLASTIC OTHER

C 2

E
A
C
H
S
C
R
E
E
N

DEPTH (nearest ft.)

1 2
8 9 11 15 17 21
23 24 26 30 32 36
38 39 41 45 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 68OEP USE ONLY
(NOT TO BE FILLED IN BY DRILLER)T (E.R.O.S.) WQ
70 72 74 75 76
TELESCOPE LOG OTHER DATA
CASING INDICATOR

C 3

1 2

PUMPING TEST

HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min. to nearest gal.) 9

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 30 20

WHEN PUMPING 35 25

TYPE OF PUMP USED (for test)

A air P piston T turbine
27 27 27
C centrifugal R rotary O other (describe below)
27 27 27
J jet S submersible
27 27

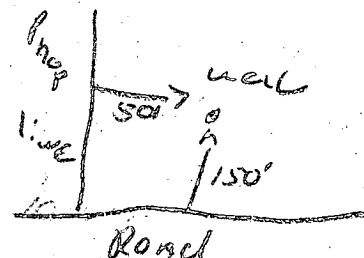
PUMP INSTALLED

DRILLER WILL INSTALL PUMP YES NO
(CIRCLE) (YES or NO)
IF DRILLER INSTALLS PUMP, THIS SECTION
MUST BE COMPLETED FOR ALL WELLS
EXCEPT HOME USE
TYPE OF PUMP INSTALLED: 29
PLACE (A,C,J,P,R,S,T,O)
IN BOX - SEE ABOVE:CAPACITY:
GALLONS PER MINUTE 31 35
(to nearest gallon)

PUMP HORSE POWER: 37 41

PUMP COLUMN LENGTH
(nearest ft.) 43 47CASING HEIGHT (circle appropriate box
and enter casing height)+ above } LAND SURFACE 2 (nearest foot)
- below } 49 50 51

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 A WELL WAS ABANDONED AND SEALED
WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION
WELLI 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. 253

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

Page of

Frederick County

County Well No. Date April 5, 85HowardReviewed By OK 10/21/85 CWFIELD DATA SHEET
HYDROGEOLOGIC AREA (3) WELL YIELD TESTMaryland Well Permit No. HO-81-1156Owner or Applicant KNICKMANLocation of Property (road) ellchester RdSubdivision Talberts Last Shift Lot 6D Block Plat Sec. Well Driller Ralph MayneDepth of Well 260Distance of Measuring Point (M.P.) above ground 1 ftStatic Water Level (S.W.L.) below M.P. 30 ft

I. High Rate Pumping -- reservoir drawdown

Time pump started 7:45Pumping rate 9 G.P.M.Total time 15 min to reach pumping water level 38 ft. below M.P.

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

TIME (CHRON.)	WATER LEVEL Below M.P.	PUMPING RATE Time to fill <u>1</u> gal. bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per min.)
<u>8:00</u>	<u>38 ft</u>	<u>7 sec</u>		<u>9 G.P.M.</u>
<u>8:15</u>	<u>38</u>	<u>7</u>		<u>9</u>
<u>8:30</u>	<u>38</u>	<u>7</u>		<u>9</u>
<u>8:45</u>	<u>38 ft</u>	<u>7 sec</u>		<u>9 G.P.M.</u>
<u>9:00</u>	<u>38</u>	<u>7</u>		<u>9</u>
<u>9:15</u>	<u>38</u>	<u>7</u>		<u>9</u>
<u>9:30</u>	<u>38 ft</u>	<u>7 sec</u>		<u>9 G.P.M.</u>
<u>9:45</u>	<u>38</u>	<u>7</u>		<u>9</u>
<u>10:00</u>	<u>38</u>	<u>7</u>		<u>9</u>
<u>10:15</u>	<u>38 ft</u>	<u>7 sec</u>		<u>9 G.P.M.</u>
<u>10:30</u>	<u>38</u>	<u>7</u>		<u>9</u>
<u>10:45</u>	<u>38</u>	<u>7</u>		<u>9</u>
<u>11:00</u>	<u>38 ft</u>	<u>7 sec</u>		<u>9 G.P.M.</u>

6 Bags

26 ft PL