

5-31-88
2130
6-5-88
1430
6-6-88
1430
6-7-88
1PM

6/7/88
well abandoned
still needed
(Bw)

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

INDEXED

03-286185

P 41791
A 27840
DISTRICT 3rd
DATE 5/18/88
DATE SYSTEM APPROVED 6/7/88
INSPECTOR (Bw)

Paul Schissler/South Carroll Backhoe, Inc. IS PERMITTED TO INSTALL ☒ ALTER

ADDRESS 4410 Salem Bottom Road, Westminster, Maryland PHONE 875-4197

SUBDIVISION Buttercup Estates ROAD 12900 Route 144 LOT 1

PROPERTY OWNER Mr. Donald Waddell

ADDRESS

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

GARBAGE GRINDER? YES NO ☒

SEPTIC TANK CAPACITY 1500 GALLONS NUMBER OF BEDROOMS 5

TRENCHES - 220 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 4 1/2 feet below original grade. Bottom maximum depth 8 1/2 feet below original grade. Effective area begins at 4 1/2 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Beginning from the right (485.00'/124.41') lot corner, place the 1st trench 10' down and 10 feet off the 124.41 line as seen when facing property from the 50' Right-of-Way. Run trenches along contour towards the rear 429.00 lot line.

NOTE: MAINTAIN MINIMUM 100 FEET FROM WELL TO SEPTIC.

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 Bert Nixon DATE 1/20/88

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 TRENCH(IES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES).

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.

BLDG. PERMIT SIGNED

AND RETURNED

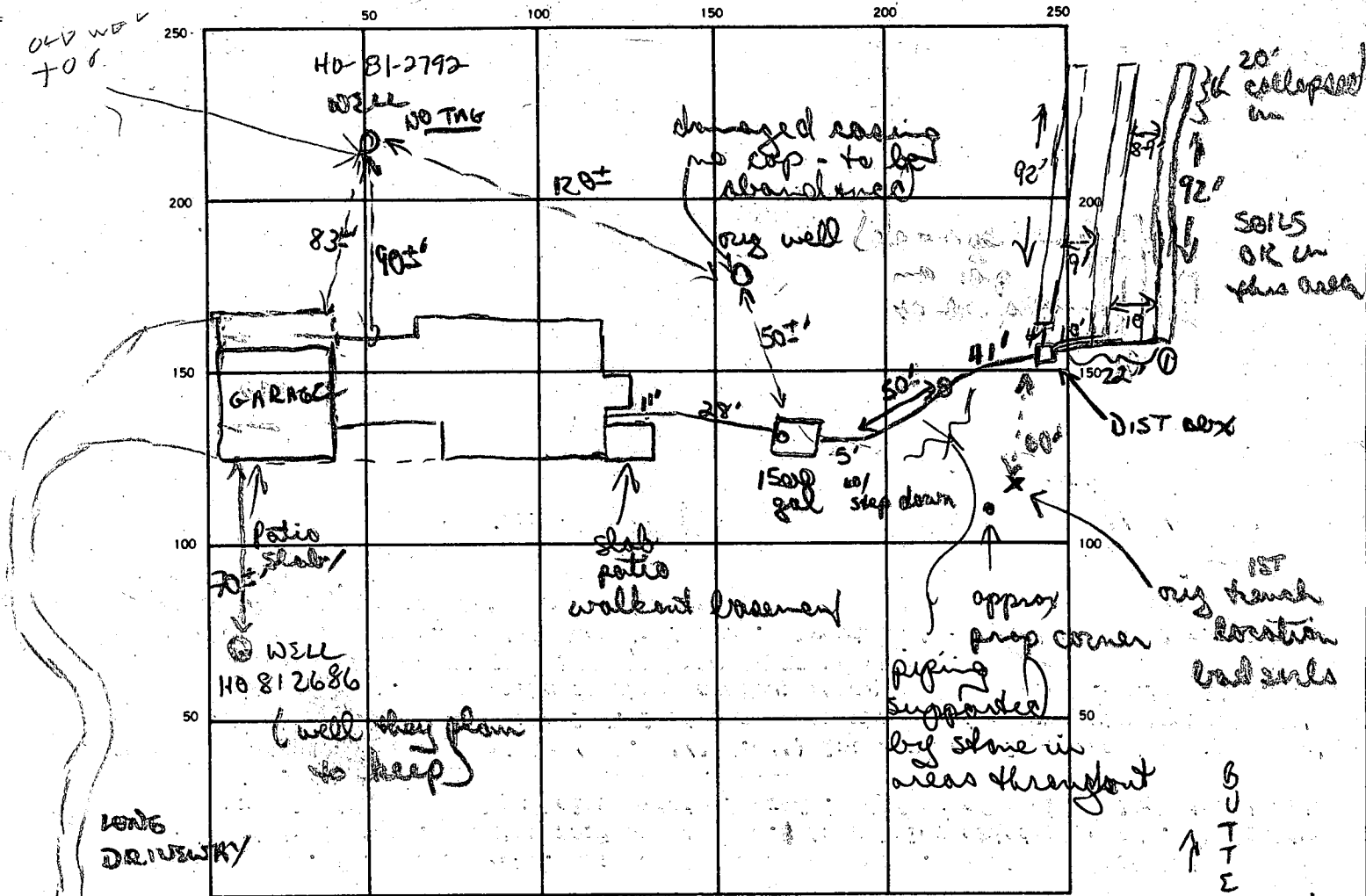
5/27/88
Serial # 39387 radio tower

*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1186

A 27840



INDICATE NORTH. — NAME ADJOINING ROADWAY AS BASE LINE.

RTE 144

SEPTIC TANK. LEVEL 1500 gal CLEANOUTS 1 S.T., 1 3/4 line

DISTRIBUTION BOX. LEVEL ✓ w/ baffle

DRAIN FIELD/TILE FIELD. DEPTH 9 1/2 8 1/2 8 1/2 - 9' TRENCH WIDTH 2 FT. INLET DEPTH 5 1/2 4 1/2 4 1/2

EFFECTIVE GRAVEL DEPTH 4 4 4' FT. TOTAL LENGTH 92' 92' 92' FT.

NUMBER OF TRENCHES 3 ONE SIDEWALL / BOTTOM AREA 368, 368 368 SQ. FT.

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

ABSORBENT AREA 1104 SQ. FT.

220
5
1100
338
3
104

REMARKS 5/31/88 witnessed tank setting. Soils rocky - no indication on perc records, Original well needs abandonment. Location of 1st trench (shipped) - soils unsatisf. Topo not accurate - starting location 2nd trench

5/31/88 Pump - no further work done 6/3/88 130PM SEPTIC TANK OUTLET OK RH

6/13/88 2:38 PM - SEPTIC CLEANOUT OK. NO LET.

6/6/88 OK to finish digging trench #1 + add stone pipe paper. OK to cover line from house to tank. OK to start trench #2. 6/6/88 OK to cover trench #1.

6/7/88 OK to finish stoning + cover trench #2. OK to start + stone #3

DATE SYSTEM APPROVED 6/7/88 INSPECTOR B. Nixen

HOWARD COUNTY HEALTH DEPARTMENT

JOYCEM. BOYD, M.D., M.P.H.
COUNTY HEALTH OFFICER



Bureau of Environmental Health
3525 Ellicott Mills Drive
Ellicott City, Maryland 21043

Director - 461-9956
Water & Sewerage, Permits - 461-9933
Community Environmental Health - 461-9944
Technical Services - 461-9955

May 13, 1988

Mr. Donald Waddell /
8526 Inspiration Drive
Walkersville, Maryland 21793

RE: Well Tag Number: HO-81-2686
Buttercup Estates - Lot 1

Dear Mr. Waddell:

On April 12, 1988 yield tests were performed on two wells on the above referenced property.

Other than for slight cloudiness, the tagged (HO-81-2686) well appeared satisfactory. A water sample has been submitted to the State Laboratory for chemical testing.

The untagged well, which the driller indicated was being considered as a back-up source, did not appear as suitable. The water sample was decidedly turbid and discolored, most likely from iron and/or suspended sediment. This well would be expected to be abandoned unless the turbidity problem was corrected.

If you have any questions relative to this matter, please call me at 461-9933.

Respectfully,

A handwritten signature in cursive script that reads "Craig Williams".

Craig Williams, Director
Water and Sewerage Program

CW:JR

APPLICATION

A 27840

P _____

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICESP. O. BOX 476, ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 465-5000, EXT. 356DISTRICT 1000 gallon
DATE 4/17/78

*Septic Tank { 1-3 Bedrooms 1000 gallon
4 Bedrooms 1250 gallon }*
Dry well to have 160 sqft. effective
absorbant sidewalk area per bedroom below
first 6' of original soil
entire to be 3' below original grade and maximum
depth 12'. Location per engineer's plat: 113' from right
property line & 120' from rear property line when facing
lot from R#144, (Per hole 5+6)

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLANDI, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE
DISPOSAL SYSTEM.PROPERTY OWNER Chester Grimes D. Wadde IIADDRESS 12790 Frederick Road, West Friendship, Md.

PHONE _____

PROPERTY LOCATION:

SUBDIVISION Buttercup EstatesLOT NO. 4ROAD AND DESCRIPTION Route 14412900 Route 144SIZE OF LOT 3.4 acres m/1TYPE BLDG. 3 or 4 bedrooms

NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE _____

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC
FACILITIES BECOME AVAILABLE.SIGNATURE OF APPLICANT /s/ Jack BoenderAPPROVED BY C. B. Strecker FOR Dry well & 100
" " & trench DATE 10/17/78
(KIND OF SYSTEM)REJECTED BY _____ FOR _____ DATE _____
(KIND OF SYSTEM)

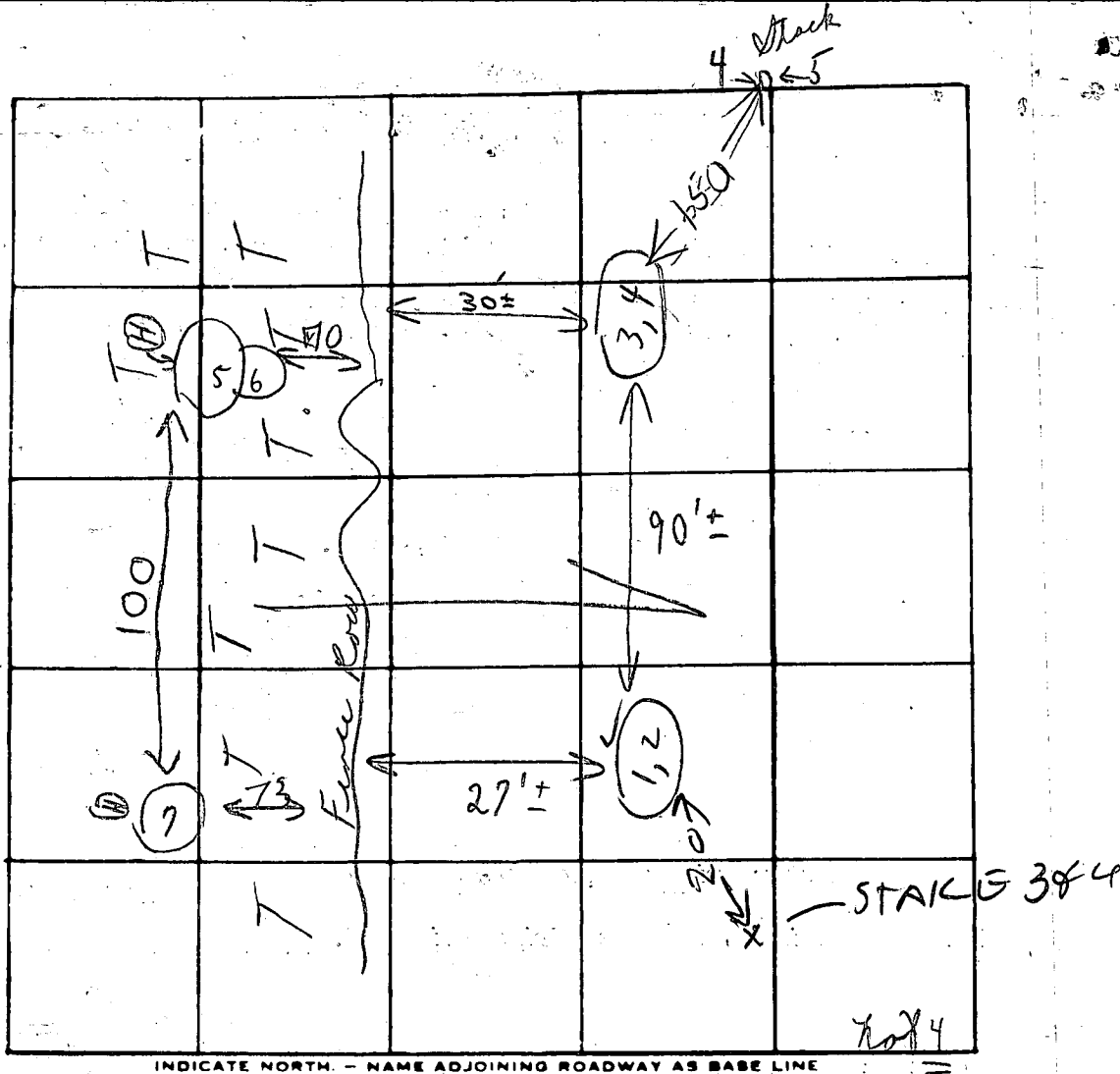
HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

RECEIVED
AND RETURNED 4/27/78 BP 17516
(S.F.-D)

THIS IS NOT A PERMIT

Key: → slope
T = trees



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
4/21/78	1A	3'	2:47		Howard	shelp	
	2	13 1/2'	2:47	2:56	2:56	3:14	18m
	3	3 1/2'	2:45	2:48	2:48	2:51	3m
	4	14'	2:45	2:50	2:50	3:03	13m
	5A	2 1/2'	3:31				
	④ 6	12'	3:32	3:38	3:38	3:54	16m
	7	12 1/2'	Visual	dry	similar to 1 & 2		
	1B	4'	3:17		Howard to 5'		
	1C	5'	3:20	3:22	3:22	3:28	6m
	5B	4' 6"	4:06	4:09	little perc	→ Howard	
	5C	5'	4:10	4:18	little perc		
	5D	6'	4:19	4:25	4:25	4:45	20

REMARKS

4/25/78 DENNIS SAID SEWER (12') (3,4) how in
TYPE OF SOIL
DISPOSAL AREA SAME AS ON TEST PLAT (5,6) 7 20 field
TESTED BY C. B. D. ALSO PRESENT: Rich Dennis } possibly
NOTE: 4/25/78 THREE EXTRA HOLES
DUG ON LOT 4 & 2 HAD UNDER GROUND Drayland Howard
WATER & ONE HAD ROCK R12

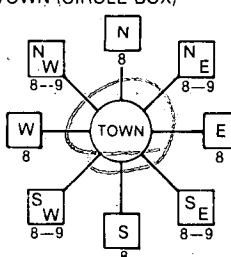
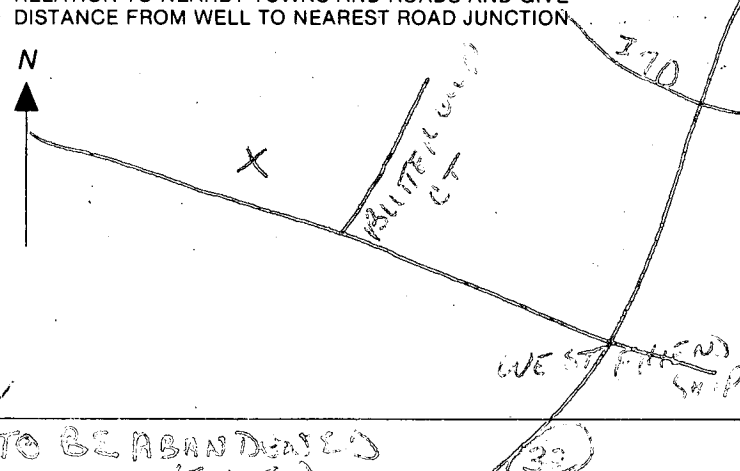
ar kens
12
max depth
3ft

wood
ground
6'

7
3m
6 76
6
16

Soil Profile
Below
clay
loam

220
4
880

B 1 6489 SEQUENCE NO. (DP USE ONLY) <small>(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)</small>	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER 10-81-2686 <small>fill in this form completely</small>
Date Received (APA) 042658 OWNER INFORMATION 15 Last Name: WALKER 34 Owner: ELDON First Name: INSPIRATION 55 Street or RFD: DIL Town: WALKERSVILLE 70 State 72: MD Zip: 21793 76	B 3 LOCATION OF WELL 8 COUNTY: HOWARD 21 23 SUBDIVISION: BUTTERCUP ESTATES 42 SECTION: 1 44 46 LOT: 1 48 50 52 NEAREST TOWN: WEST FRIENDSHIP 71 MILES FROM TOWN (enter 0 if in town) 0 73 76 77 78: MI	
DRILLER INFORMATION Driller's Name: George F. Easterday 77 License No. 80: 40 L. Franklin Easterday, Inc. Firm Name: 9265 Brown Church Rd., Mt. Airy, Md. 21771 Address: George F. Easterday 4/25/88 Signature: George F. Easterday Date:	B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  NEAR WHAT ROAD RT 144 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH <input checked="" type="radio"/> WEST <input type="radio"/> EAST <input type="radio"/> SOUTH <input type="radio"/> 34 900 37 DISTANCE FROM ROAD ENTER FT or MI FT 38 39	
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20	USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> D HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) <input type="radio"/> F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="radio"/> I INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT) <input type="radio"/> P PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL) <input type="radio"/> T TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)	
APPROXIMATE DEPTH OF WELL 200 24 28 FEET APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL COUNTY NAME: HOWARD COUNTY NO.: 127840 STATE SIGNATURE: _____ INSERT S <input type="checkbox"/> 41 DATE ISSUED: 04/27/88 43 48 CO SIGNATURE: B. A. A. A. 48 55 EXP. DATE: 10/27/88 57 63 NORTH GRID: 536000 50 55 EAST GRID: 0811000 57 63	
METHOD OF DRILLING (circle one) BORED (or Augered) <input checked="" type="radio"/> AIR-ROTARY <input type="radio"/> AIR-PERCussion <input type="radio"/> ROTARY (Hydraulic Rotary) <input type="radio"/> JETTED <input type="radio"/> Jettied & DRIVEN CABLE <input type="radio"/> REVERSE-ROTARY <input type="radio"/> DRIVE-POINT other: _____	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 1 N 530 6 000 000 DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 	
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <input type="radio"/> N THIS WELL WILL NOT REPLACE AN EXISTING WELL <input checked="" type="radio"/> Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED 39 <input type="radio"/> S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY <input type="radio"/> D THIS WELL WILL DEEPEMED AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 10-81-2686 52	Not to be filled in by driller (OEP USE ONLY) APPROP. PERMIT NUMBER G A P 54 63 FORCE 20 67 68 WRITE INITIALS-PERMIT NO. 10-81-2686 70 71 72 73 74 75 76 77 78 79 SPECIAL CONDITIONS NO 812504 OR 16 TAG #. TO BE ABANDONED AND SEALED	

6/7/88

Spoke w/ Mr Waddell
Informed him that
well must be abandoned
& untapped well put
into production OR
also abandoned prior
to U+O approval

C1 7768

SEQUENCE NO.
(OEP USE ONLY)STATE OF MARYLAND
WELL COMPLETION REPORTFILL IN THIS FORM COMPLETELY
PLEASE PRINT OR TYPETHIS REPORT MUST BE SUBMITTED WITHIN
45 DAYS AFTER WELL IS COMPLETED.COUNTY
NUMBER

A27840

DATE Received

DATE WELL COMPLETED

Potable water source.

Depth of Well

PERMIT NO.

FROM "PERMIT TO DRILL WELL"

8 13

05/3/88

22 400 26
(TO NEAREST FOOT)28 29 30 31 32 33 34 35 36 37
110-81-2686

OWNER

WADDALL

Don

STREET OR RFD

ROUTE 144

TOWN

WEST FRIENDSHIP

SUBDIVISION

BUTTERCUP STATES

SECTION

LOT

1

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 TOCheck
if water
bearing

Top soil	0	2	
Slate	2	8	
Green slate	8	12	
Grey slate	12	19	
Brown slate	19	35	
Blue slate	35	50	
Grey slate	50	57	
Blue slate	57	63	
Grey slate	63	67	✓
Blue slate	67	111	
Grey slate	111	113	
Blue slate	113	115	
Grey slate	115	140	✓

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)yes ☒ no ☐

TYPE OF GROUTING MATERIAL

CEMENT ☒BENTONITE CLAY ☐

NO. OF BAGS 10 NO. OF POUNDS 1000

GALLONS OF WATER 50

DEPTH OF GROUT SEAL (to nearest foot)

from 1 ft. to 20 ft.
(enter 0 if from surface)casing
types
insert
appropriate
code
below

CASING RECORD

ST CO

STEEL CONCRETE

PL OT

PLASTIC OTHER

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

5 6 28 70

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 HOLE

PL OT

PLASTIC OTHER

C2
1 2
DEPTH (nearest ft.)
H 21 400
23 24 26 30 32 36
38 39 41 45 47 51SLOT SIZE 1 2 3
DIAMETER OF SCREEN (NEAREST INCH)
56 60GRAVEL PACK from to
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 76TELESCOPE LOG OTHER DATA
CASING INDICATOR

C3

PUMPING TEST

HOURS PUMPED (nearest hour) 6

PUMPING RATE (gal. per min. to nearest gal.) 3

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 33

WHEN PUMPING 188

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

(CIRCLE) (YES OR 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 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height)

4 above

below

LAND SURFACE (nearest foot)

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. 40

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

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

Page _____ of _____
Date _____

John
5-12-88 8:00

Review 12-10-88

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 812686
Location of property (road) ROUTE 144
Subdivision BUTTERCUP ESTATES Lot 1 Block _____ Plat _____ Sec. _____
Well Driller GEORGE EASTERDAY Owner WADDELL, DON

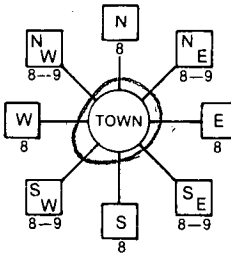

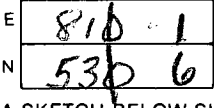
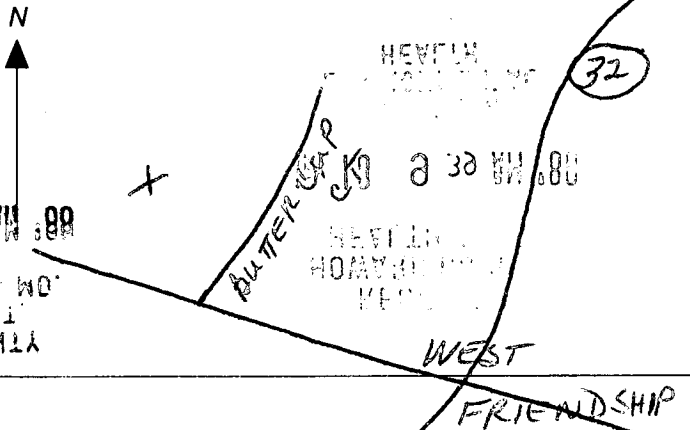
Depth of well 400 26 PM
Distance of measuring point (M.P.) above ground 1 ft
Static water level (S.W.L.) below M.P. 33 ft

I. High rate pumping -- reservoir drawdown

Time pump started 8:30 Pumping rate 8 gpm
Total time 45 min to reach pumping water level 193' 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 <u>X1</u> gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
9:15	193'	20	<u>Sec</u>	8 gpm
9:30	196'	25		2.5
9:45	192'	22	<u>Flow at 380'</u>	2.7
10:00	188'	21	<u>R. Hanen</u>	2.8
10:15	188'	21		2.8
10:30	188'	21	2.4 189	2.8
10:45	188'	21	2.6 33	2.8
11:00	189'	21	156 156	2.8
11:15	188'	21	156 780	2.8
11:30	188'	21	156 780	2.8
11:45	188'	21	156 780	2.8
12:00	188'	22		2.8
12:15	189'	22		2.8
12:30	189'	22		2.8
12:45	189'	22		2.8
1:00	189'	22		2.8
1:15	189'	22		2.8
1:30	189'	22		2.8
1:45	188'	22		2.8
2:00	188'	22		2.8
2:15	188'	22		2.8
2:30	188'	22		2.8
2:45	188'	22		2.8
3:00	188'	22		2.8

B 1 8521 <small>(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)</small>	SEQUENCE NO. (DP USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER HO-81-2772 <small>fill in this form completely</small>
Date Received (APA) 05/17/88 OWNER INFORMATION MADDELL DON <small>15 Last Name 13 Owner 34 First Name</small> 8526 INSPIRATION DR <small>36 Street or RFD 55</small> WALKERSVILLE MD 21796 <small>57 Town 70 State 72 Zip 76</small>		B 3 LOCATION OF WELL HOWARD <small>8 COUNTY 21</small> BUTTERCUP ESTATES <small>23 SUBDIVISION 42</small> SECTION 1 LOT 1 (WELL #2) <small>44 46 48 50</small> WEST FRIENDSHIP <small>52 NEAREST TOWN 71</small> MILES FROM TOWN (enter 0 if in town) 0 M 1 <small>73 76 77 78</small>	
DRILLER INFORMATION George F. Easterday <small>Driller's Name 77 License No. 80</small> L. Franklin Easterday, Inc. <small>Firm Name</small> 9265 Brown Church Rd., Mt. Airy, Md. 21771 <small>Address</small> George F. Easterday 5/12/88 <small>Signature Date</small>		B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  RT 144 <small>11 NEAR WHAT ROAD 30</small> ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  DISTANCE FROM ROAD 1000 <small>34 37</small> ENTER FT or MI FT <small>38 39</small>	
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 <small>8 12</small> AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 <small>14 20</small>		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL HOWARD A27840 <small>COUNTY NAME COUNTY NO.</small> STATE SIGNATURE _____ INSERT S <input type="checkbox"/> DATE ISSUED 06/10/88 B. Nylen 12/10/88 <small>43 48 CO SIGNATURE 63 EXP. DATE</small> NORTH GRID 536000 EAST GRID 0811000 <small>50 55 57 63</small>	
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)		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  DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 	
APPROXIMATE DEPTH OF WELL 200 FEET <small>24 28</small> APPROXIMATE DIAMETER OF WELL 6 INCH <small>NEAREST INCH</small>		METHOD OF DRILLING (circle one) BORED (or Augered) <input checked="" type="checkbox"/> JETTED <input type="checkbox"/> Jetted & DRIVEN <input type="checkbox"/> <small>30 37</small> AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary) 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 <input checked="" type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY (NOT FOR DRINKING PURPOSES) <input type="checkbox"/> THIS WELL WILL DEEPEN 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 _____ FORCE 100 INITIALS 100 PERMIT No. HO-81-2772 <small>67 68 IN BOX 70 71 72 73 74 75 76 77 78 79</small>	
SPECIAL CONDITIONS			

C1

9991

1

2

3

4

5

6

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

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

DATE Received

DATE WELL COMPLETED

051382

400

Non-potable source only

Depth of Well

PERMIT NO.

FROM "PERMIT TO DRILL WELL"

10-81-2792

OWNER

STREET OR RFD

SUBDIVISION

SECTION

LOT

WADDELL, DONALD

RT 144

BUTTERCUP EST

1

WELL LOG

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

Topsoil

2

Shale

16

Brown slate

27

Blue slate

38

Brown slate

40

Blue/Green slate

118

White slate

121

Grey slate

138

Blue slate

154

Grey slate

156

Blue slate

190

Grey slate

400

GROUTING RECORD

WELL HAS BEEN GROUTED

TYPE OF GROUTING MATERIAL

CEMENT

BENTONITE CLAY

NO. OF BAGS

NO. OF POUNDS

GALLONS OF WATER

DEPTH OF GROUT SEAL (to nearest foot)

from

ft. to

ft.

Y

N

CM

BC

6

30

50

0

18

ft.

CASING RECORD

casing types

insert appropriate code below

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

22

ft.

OTHER CASING (if used)

diameter inch

depth (feet) from to

EACH CASING

SCREEN RECORD

screen type or open hole

insert appropriate code below

STEEL

BRASS

BRONZE

PL

OT

PLASTIC

OTHER

ST

BR

HO

PL

OT

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

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

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.

DRILLERS SIGNATURE

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

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

PUMPING TEST

HOURS PUMPED (nearest hour)

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

METHOD USED TO MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING

WHEN PUMPING

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)

A above

below

LAND SURFACE

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)

Date _____ of _____

Thur 5-12-88 8:00

STAND BY

Review 1-12-89 JEN

ok for non-potable use

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. 110 - ~~8021080~~ NOTAG HO-81-272
Location of property (road) ROUTE 1114
Subdivision BUTTERCUP ESTATES Lot 1 Block Plat Sec.
Well Driller GEORGE EASTERDAY Owner WARDEN, DON

Depth of well 400

Distance of measuring point (M.P.) above ground 1 ft

Static water level (S.W.L.) below M.P. 20 ft

I. High rate pumping -- reservoir drawdown

Time pump started 9:00

Pumping rate 10 gpm

Total time 45 min to reach pumping water level 216 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 1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
9:45	216'	52 Sec	1/4	1.1
10:00	216'	52	pump at 350' R. Hansen	1.1
10:15	215'	52		1.1
10:30	214'	42		1.4
10:45	215'	46		1.3
11:00	215'	46	46/60	1.3
11:15	215'	46	46/60	1.3
11:30	215'	46	46/60	1.3
11:45	215'	46	1.3 216	1.3
12:00	215'	46	60 20	1.3
12:15	216'	46	60 196	1.3
12:30	216'	46	780 1.5	1.3
12:45	216'	46	78 980	1.3
1:00	216'	46	156 gal 196	1.3
1:15	216'	46	294	1.3
1:30	216'	46	156 gal	1.3
1:45	216'	46	450 gal	1.3
2:00	216'	46	350 650 gal total	1.3
2:15	216'	46	216	1.3
2:30	216'	46	134 1.5	1.3
2:45	216'	46	670	1.3
3:00	216'	46	134	1.3
3:15	216'	46	201.0	1.3
3:30	216'	46		1.3

HD-224 3:45

216'

46

1.3

WELL ABANDONMENT REPORT

Date: 6/10/88

PERMIT NUMBER OF ABANDONED WELL (if any)

H 0 - 8 1 - 2 3 0 4

DRILLER'S NAME

Easterday, George
LAST FIRST

OWNER'S NAME

Waddell, Don
LAST FIRST

WELL LOCATION:

COUNTY: HowardSUBDIVISION: Buttercup EstSECTION: _____ LOT: 1NEAREST TOWN: W. FRIENDSHIPADDRESS: RT 144

MARYLAND GRID LOCATION:

E
N811536

X	0/5	5/5
	0/0	5/0

SHOW WELL LOCATION BY (X)
WITHIN BOX

TYPE OF WELL

- ☒ DRILLED
☐ JETTED
☐ BORED OR AUGERED
☐ OTHER, SPECIFY _____

DEPTH OF WELL 400 FT,

TYPE OF CASING

- ☒ STEEL
☐ PLASTIC
☐ CONCRETE
☐ OTHER, SPECIFY _____

SIZE OF CASING 6 IN.WAS ANY CASING REMOVED ☒ YES ☐ NOIF YES, AMOUNT REMOVED 4 FT.WAS CASING RIPPED OR PERFORATED ☐ YES ☒ NO

LOG OF SEALING MATERIAL

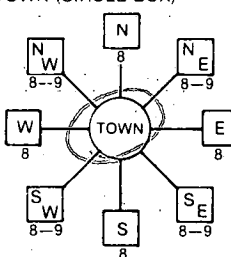
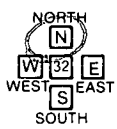
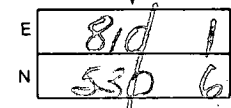
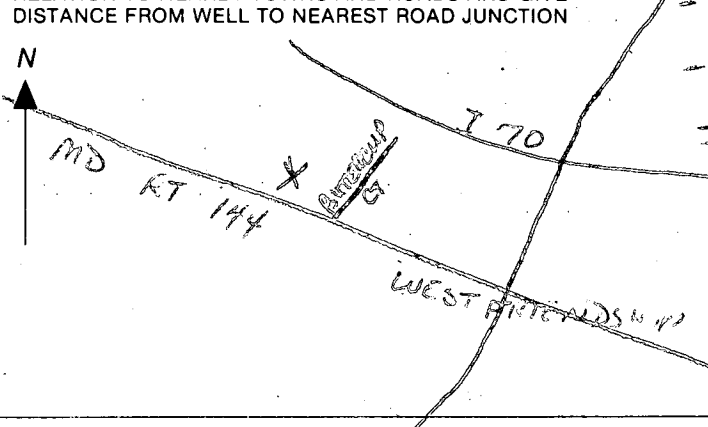
MATERIAL	FEET	
	FROM	TO
Cuttings	400'	30'
Bentonite	30'	27'
Cement	27'	3'
Fill Dirt	3'	0

DRILLER Mary F. Easterday OW/AT

SIGNATURE

LICENSE# 40

CC 6/11/88

B 1 6713 <small>(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)</small>	SEQUENCE NO. (DP USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type.	STATE PERMIT NUMBER 40-81-2504 <small>fill in this form completely</small>
Date Received (APA) 012088		B 3 LOCATION OF WELL R-40832 HOWARD COUNTY BUTTERCUP ESTATES SUBDIVISION SECTION 1 LOT 1 WESTFRIENDSHIP NEAREST TOWN MILES FROM TOWN (enter 0 if in town) 0 MI	
OWNER INFORMATION WADDELL DON Last Name Owner First Name 8526 INSPIRATION DR Street or RFD WALKERSVILLE MD 21793 Town State Zip		B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) 	
DRILLER INFORMATION George F. Easterday Driller's Name L. Franklin Easterday, Inc. Firm Name 9265 Brown Church Rd., Mt. Airy, Md. 21771 Address George F. Easterday Signature 1/19/88 Date 30 License No. 80		NEAR WHAT ROAD Rt 144 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  DISTANCE FROM ROAD 850 FT ENTER FT or MI FT	
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL HOWARD COUNTY NAME 027340 COUNTY NO. STATE SIGNATURE _____ INSERT S _____ DATE ISSUED 012188 CO SIGNATURE B. Nilon EXP. DATE 07/21/88 NORTH GRID 536000 EAST GRID 0811000	
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) <input type="radio"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="radio"/> INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT) <input type="radio"/> PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL) <input type="radio"/> TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)		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 	
APPROXIMATE DEPTH OF WELL 200 FEET APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST		3-9-88 Easterday not on site by 4:30 pm. Well site by different from plat. 3-10-88 18 ft open hole 1 ft above ground 22 ft casing 000 - 6 bags cement JEN	
METHOD OF DRILLING (circle one) BORED (or Augered) <u>JETTED</u> Jetted & <u>DRIVEN</u> <input checked="" type="radio"/> AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary) <input type="radio"/> CABLE <u>REVERSE-ROTARY</u> <u>Drive-POINT</u> other _____		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 	
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY <input type="radio"/> THIS WELL WILL DEEPEMED 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 30 WRITE INITIALS IN BOX PERMIT NO. 40-81-2504 SPECIAL CONDITIONS	

Review

Well Permit No. HO - 81-25074
Location of property (road) ROUTE 144
Subdivision BUTTERCUP ESTATES Lot 1 Block Plat Sec.
Well Driller GEORGE EASTERDAY Owner WANNZEL DONALD

Depth of well 300 2 1/2 gpm
Distance of measuring point (M.P.) above ground 1 ft
Static water level (S.W.L.) below M.P. 31 ft

Time pump started 800 Pumping rate 10 gpm
Total time 60 min to reach pumping water level 199 ft. below M.P.

[illegible]

Finlan
8:00 3-11-88

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-2504
Location of property (road) ROUTE 144
Subdivision BUTTERCUP ESTATES Lot 1 Block _____ Plat _____ Sec. _____
Well Driller GEORGE ESTATES Owner WADDELL, DONALD

Depth of well 400 2 1/2 GPM
Distance of measuring point (M.P.) above ground _____
Static water level (S.W.L.) below M.P. 31 ft

I. High rate pumping -- reservoir drawdown

Time pump started 8:00 Pumping rate 10 gpm
Total time 60 min to reach pumping water level 199 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 8 1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
9:00	199'	18	Sec. $\frac{1}{4}$	3.3 gpm
9:15	201'	21	pump at 350' R. Hannan	2.8
9:30	204'	20		3
9:45	206'	20		3
10:00	213'	25		2.4
10:15	214'	30		2
10:30	213'	30		2
10:45	213'	30		2
11:00	213'	30		2
11:15	214'	30		2
11:30	214'	30		2
11:45	214'	30		2
12:00	214'	30		2
12:15	214'	30		2
12:30	214'	30		2
12:45	214'	30		2
1:00	214'	30		2
1:15	214'	30		2
1:30	214'	30		2
1:45	214'	30		2
2:00	214'	30		2
2:15	214'	30		2
2:30	214'	30		2
2:45	214'	30		2
HD-224 3:00	214'	30		2

87840

HOWARD COUNTY HEALTH DEPARTMENT
Bureau of Environmental Health
3525-H Ellicott Mills Drive
Ellicott City, MD 21043
461-9933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation ☒
Replacement ☐

Receipt # 41825
Date 5/23/88

Name of Installer ROBERT L. FEELER CO., INC.

Telephone 781-4655

License Number 2122

Certified Well Pump Installer ☒ Well Driller ☐ Registered Plumber ☒

Name of Property Owner WIDELL / MAY BROTHERS BLDGS. Telephone 442-1160
Subdivision BUTTER CUP ESTATES Lot # 1 Well Tag # HD-81-2686
Site Address 1200 FREDERICK ROAD - RT. 144

Pump

1. Type

- a. Deep well jet ☐
b. Shallow well jet ☐
c. Submersible ☒

2. Make CRISWOLD/DEMING

3. Model # 4XLD

4. Capacity 5 GPM

5. Pump exceeds well capacity Yes ☒ No ☐

6. If Yes, is low pressure cutoff switch installed? Yes ☐ No ☒

7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors ☐ Cable guards ☒ Other ☐

Motor

1. Horsepower 3/4

2. RPM 3450

3. Voltage ☒

a. 110 ☐

b. 220 ☒

Pitless Adapter

1. Make MERRILL

2. Model # MTS-10

3. Depth 42" +

Tank CAPTIVE AIR

1. Capacity 100-302

2. Pressure relief valve? YES

Piping

1. Type Poly.

2. Size 1"

3. NSF and/or BOCA Code approved YES

4. Depth of supply line 42" +

Well data

1. Depth 400' ft.

2. Yield 2.3 GPM

3. Static water level 40' ft.

4. Will water supply be disinfected by installer? YES

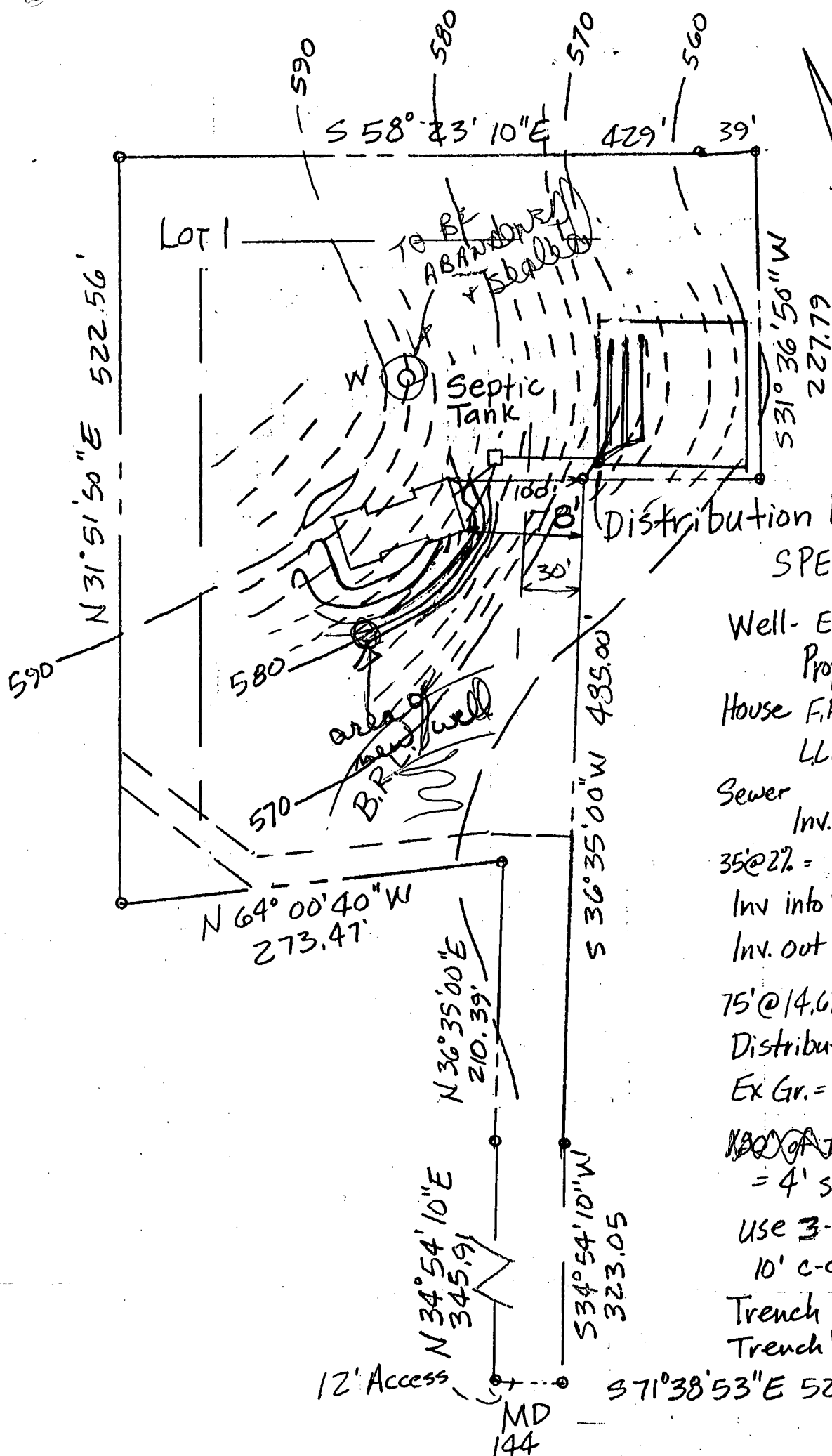
I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

All information given above is true to the best of my knowledge.

Signature of Applicant: Robert L. Feeler R.L.F. Co., Inc.

Date: 5/18/88

Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.



BP #7516
GRD
elevations
4/26/88
(B)

SPECIFICATIONS

Well- Ex Gr. 588 WILL BE
Prop. Gr. 588 DIFFERENT
(CLOSER TO 580)

House F.F. 590
LL. 581 OK

Sewer Inv. Out. 579.0

35' @ 2% = 0.7

Inv into Septic 578.3

Inv. Out 578.0 OK

75' @ 14.6% = 11.0

Distribution Box 566 OK

Ex Gr. = Prop Gr. 570

~~180' of trenches~~ 13' x 7' = 4' sidewalk

Use 3-75' trenches
10' c-c

Trench Inlet 565.5 OK

Trench bottom 561.5

LOT 1 BUTTERCUP ESTATES

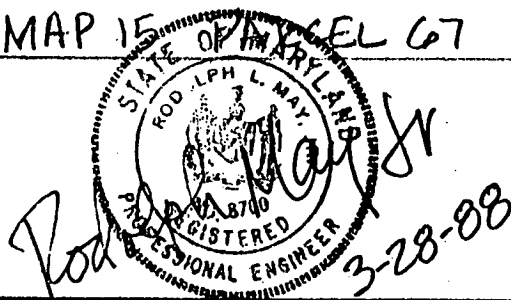
3RD ELECTION DISTRICT HOWARD COUNTY, MD.

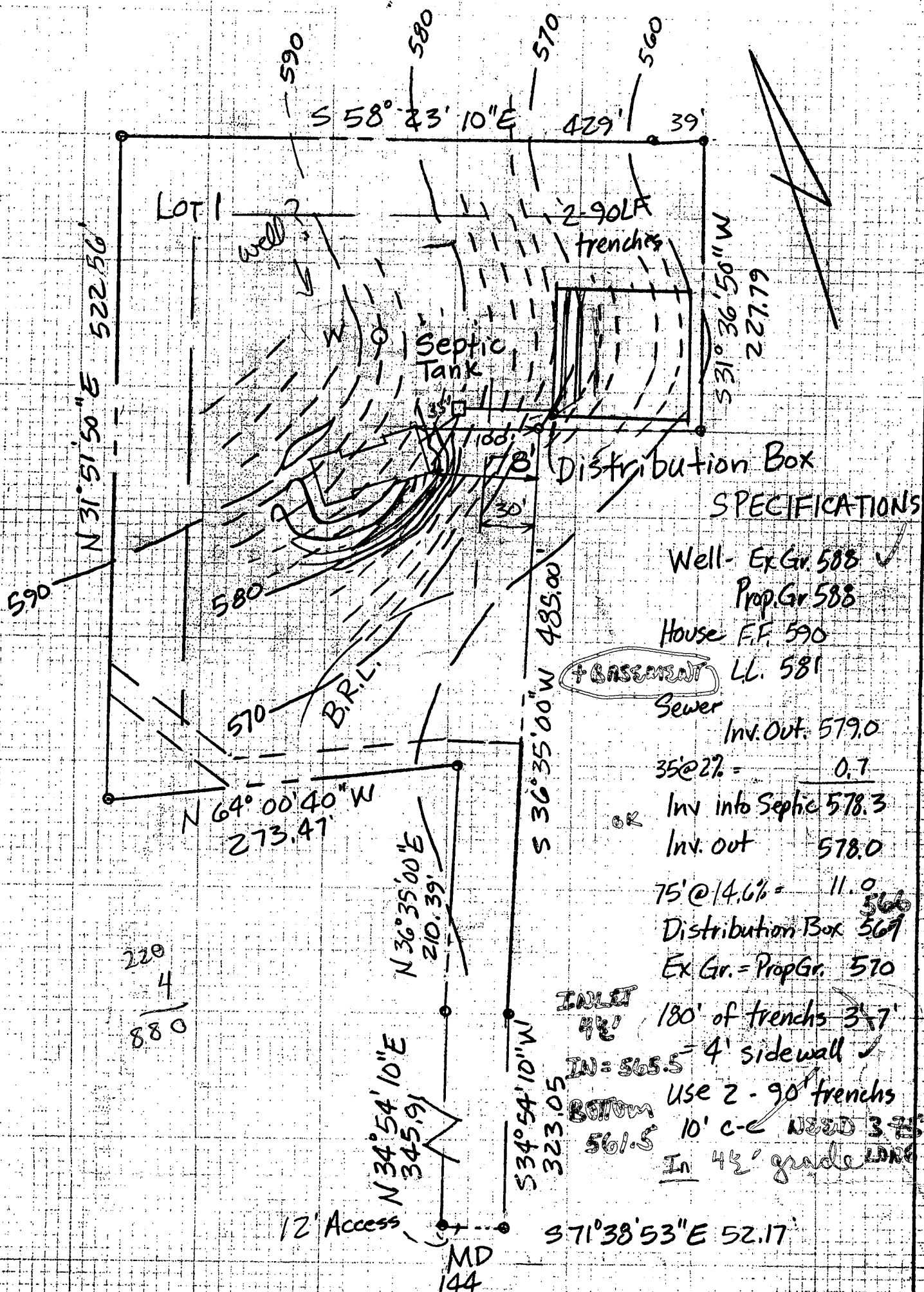
TAX MAP 15 PARCEL 67

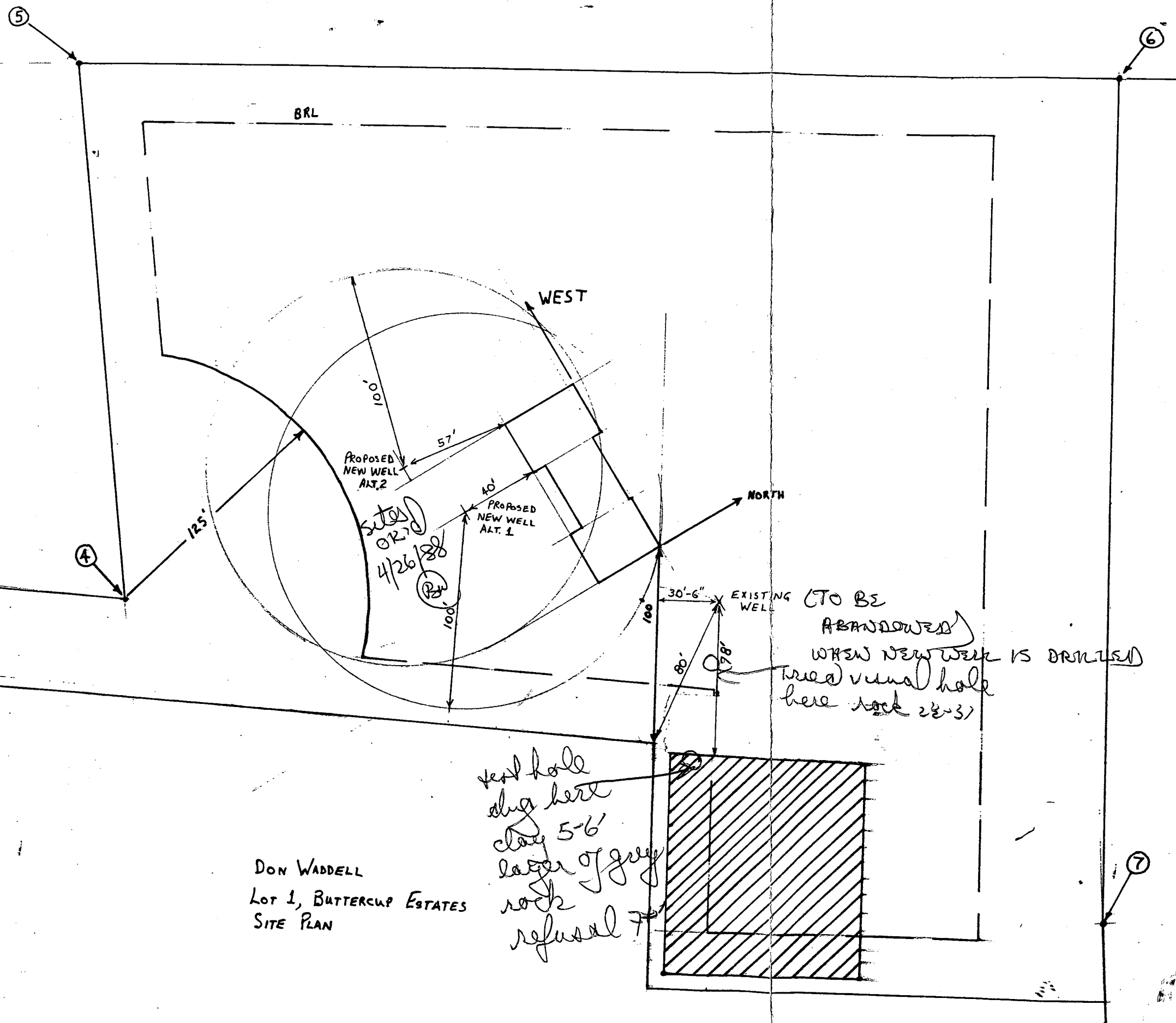
MARCH 28, 1988

MAY BROTHERS
2920 RTE 32

WEST FRIENDSHIP, MD
21794 442-1160







DON WADDELL
 LOT 1, BUTTERCUP ESTATES
 SITE PLAN

4/26/88

1" = 40'

(these are reduced
 by 25%)