

7/29/87  
1-2PM

# PERMIT

P 39703

## SEWAGE DISPOSAL SYSTEM

A 28436

MARYLAND STATE DEPARTMENT OF HEALTH DISTRICT 4th

HOWARD COUNTY  
BUREAU OF ENVIRONMENTAL HEALTH  
461-9933

04-339797

DATE 7/22/87

DATE SYSTEM APPROVED 7/30/87

### INDEXED

INSPECTOR S. Abel

Dennis Feaga IS PERMITTED TO INSTALL  ALTER

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

SUBDIVISION Hough Property ROAD 2281 McKendree Road LOT 1

PROPERTY OWNER McFarland

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 - 180 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 - Beginning from the left front lot corner, place the distribution box 120 feet down the left (711.48') lot line and 20 feet off the lot line as seen when facing property from McKendree Road. Run trenches along contour towards the left (711.48') and right (655.00') lot lines. BE SURE TO MAXIMIZE USE OF UPPER PERC AREA.

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)

7/22/87 OK TO USE ONE 108' LONG TRENCH. S. Abel  
7/30/87 P. NIXON AT 54" BELOW GRADE WELL LINE 48+54" S. Abel

PLANS APPROVED BY B. Nixon DATE 2/27/87

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.

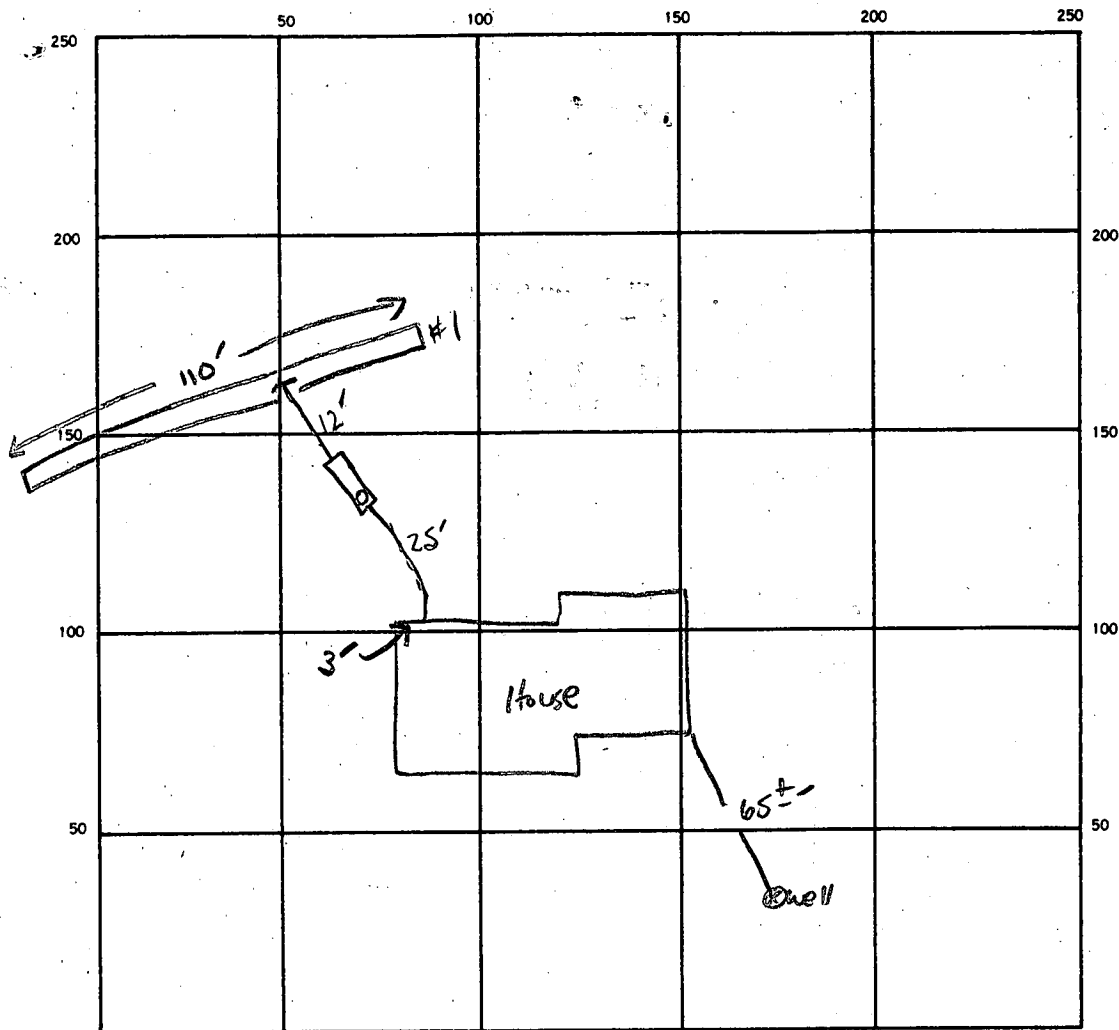
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES.

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

\*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1186

A 28436



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.  
 McKendree Rd.

SEPTIC TANK. LEVEL 1000 GAL ✓ CLEANOUTS ✓ 51

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 110 FT.

NUMBER OF TRENCHES 1 ONE SIDEWALL BOTTOM AREA 550 SQ. FT.

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

ABSORBENT AREA 550 SQ. FT.

REMARKS 7/29/87 OK TO STAGE #1 S. Mad

DATE SYSTEM APPROVED 8 7/30/87 INSPECTOR S. Mad

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

Howard County Health Department  
 Bureau of Environmental Health  
 3525-H Ellicott Mills Drive  
 Court House Square  
 Ellicott City, Md. 21043  
 461-9933

New Installation  Replacement  
 Name of Installer Crouse Plumbing + Heating Receipt # 391610  
 Date 7/9/87  
 Telephone 531-3311  
 License number 2356  
 Certified Well Pump Installer  Well Driller  Registered Plumber   
 Name of Property Owner William MacFarland Telephone 465-2782  
 Subdivision R in Mough  
 Site Address 2201 McKendree Road Lot # 1 Well tag # -  
Cooksville, md 21723

**Pump**  
 1. Type  
 a. Deep well jet   
 b. Shallow well jet   
 c. Submersible   
 2. Make WORLD  
 3. Model # \_\_\_\_\_  
 4. Capacity \_\_\_\_\_ 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 \_\_\_\_\_  
 2. RPM \_\_\_\_\_  
 3. Voltage 220  
 a. 110 \_\_\_\_\_  
 b. 220

**Pitless Adapter**  
 1. Make \_\_\_\_\_  
 2. Model # \_\_\_\_\_  
 3. Depth \_\_\_\_\_

**Tank**  
 1. Capacity 60 gal  
 2. Pressure relief valve?

**Piping** Plastic  
 1. Type \_\_\_\_\_  
 2. Size 1  
 3. NSF and/or BOCA Code approved \_\_\_\_\_  
 4. Depth of supply line 36

**Well data**  
 1. Depth \_\_\_\_\_ ft.  
 2. Yield \_\_\_\_\_ GPM  
 3. Static water level \_\_\_\_\_ ft.  
 4. Will water supply be disinfected by installer? yes

7/30/87 Pitless at 82" - well line 48-54" below grade - PUMP AND ADAPTER INST IN 816

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: Charles J. Crouse  
 Date: July 8, 1987

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

PRELIMINARY

3 lots

# APPLICATION

A 28436

P \_\_\_\_\_

7/27/78  
9:30 A.M.

## SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES  
P. O. BOX 476, ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 465-5000, EXT. 356

DISTRICT 4th

DATE 7/7/78

26  
x3  
/130

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 ~~A.C. + J.A. Feliciano~~ Richard M. Hough *McFARLAND*

ADDRESS 19501 Brassie Place  
17951 Frederick Road, Mt. Airy, Md.  
Gaithersburg, Maryland PHONE Boender - 465-7777

PROPERTY LOCATION:

SUBDIVISION \_\_\_\_\_ LOT NO. 1

ROAD AND DESCRIPTION 2281 McKendree Road + ROVER

SIZE OF LOT ? TYPE 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 Boender BLDG. PERMIT SIGNED AND RETURNED 4/20/87

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE BP11538  
(KIND OF SYSTEM)

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_  
(KIND OF SYSTEM)

HOLD PENDING FURTHER TESTS Setback - House site questionable DATE 8/3/78 (GLK)

REASONS FOR REJECTION OR HOLDING Hold for review (GLK) 7/27/78

see attached sheet 8/8/78 (GLK) BLDG. PERMIT SIGNED AND RETURNED 3/9/84  
Serial # 57904 SFD

# THIS IS NOT A PERMIT

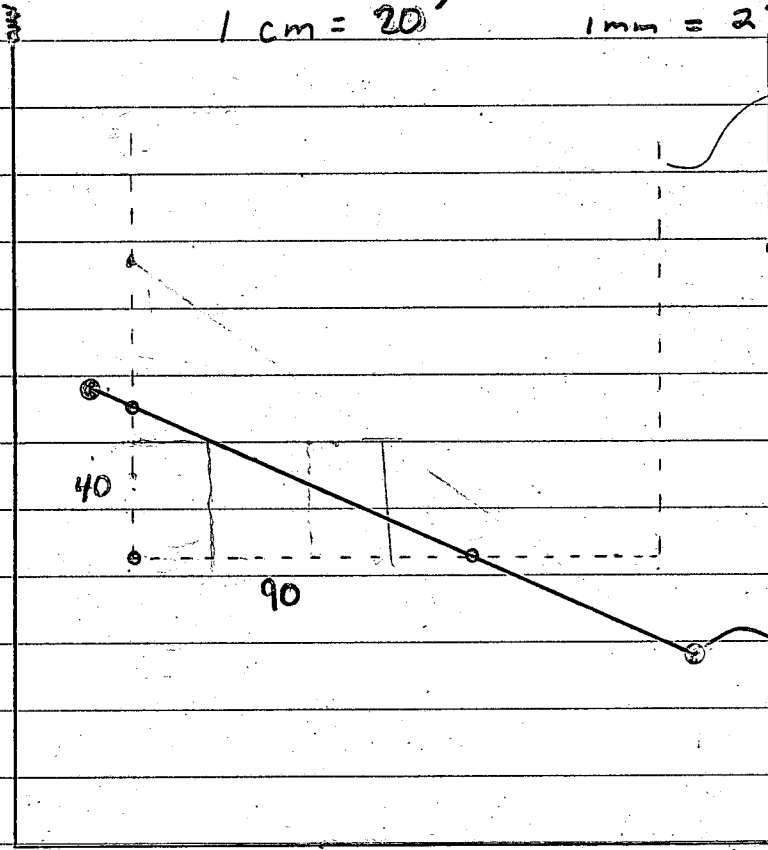




lot 1 - based on 27 July 78

1 cm = 20'

1 mm = 2'



30' 3/4' setback

40

90

perch hole

$$\begin{aligned} A &= \frac{1}{2} BH \\ &= \frac{1}{2} (90)(40) \\ &= 1800 \text{ ft}^2 \\ &= \end{aligned}$$

200

LOT 1 - McKeendree Rd

200'

29 Aug. 78

27 July 78

(GLK)

Area - minimum

Triangle ①②③ =  $\frac{1}{2}(70)(66) = 2310$

Triangle ③④⑤ =  $\frac{1}{2}(135)(152) = 10,260$

(At least) Total = 12,560 ft<sup>2</sup>

ALL holes consistent

650

650

OG  
2' CLAYEY LOAM

SANDY LOAM

11-13

Hole ③ same as above but  
small amts. of soft sandstone-

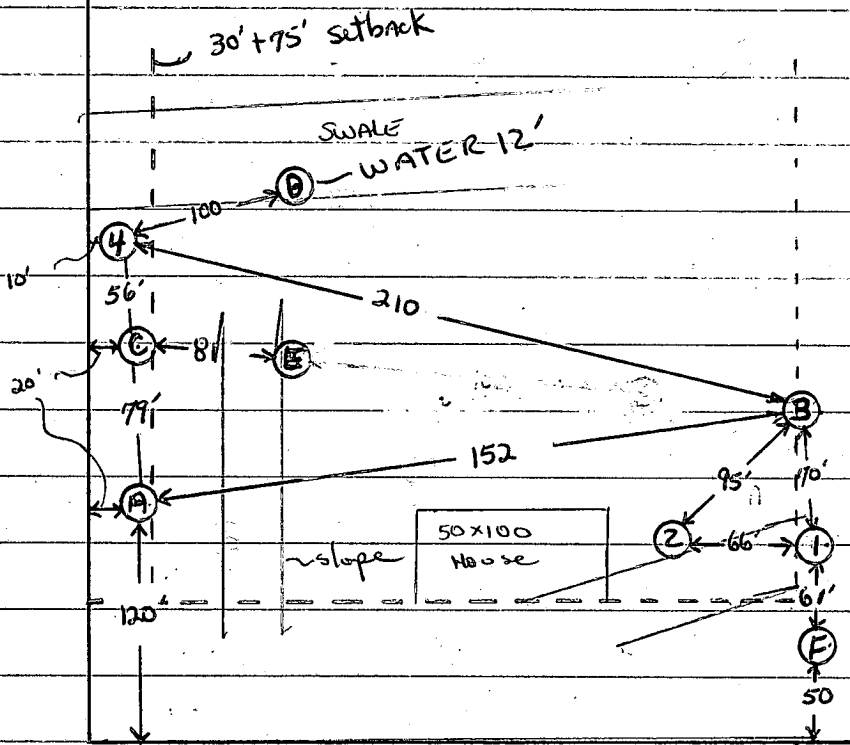
MICA

Elevation

①+② = HIGH

④ = LOW

④ → Swale = 3-4'

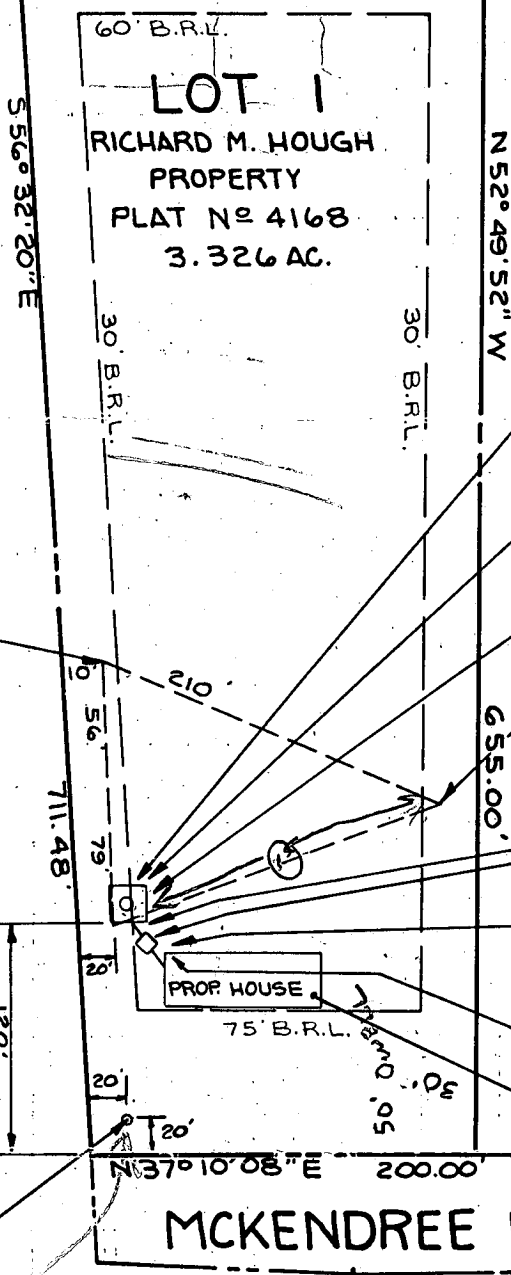


200

McKeendree Rd.

S 37° 10' 08" W 242.45'

OWNERS  
A.G. FELDMAN & J.A. FELDMAN  
19501 BRASSIE PLACE  
GAITHERSBURG, MD. 20879



12/12/83  
Sketch dk.  
J.S.

ORIGINAL / EXISTING ELEV.  
AT PERC TEST = 535.00

ORIGINAL ELEVATION  
AT DRYWELL = 539.30

EXISTING ELEVATION  
AT DRYWELL = 539.30

DRYWELL INLET  
ELEV. = 535.30

ORIGINAL / EXISTING ELEV.  
AT PERC TEST = 535.00

INVERT ELEV. OUT OF  
SEPIC TANK = 536.00

DIST. FROM SEPTIC TANK TO  
DRYWELL = 15.0'

EXISTING ELEV. AT  
SEPTIC TANK = 538.00

INVERT INTO  
SEPTIC TANK = 536.25

DIST. FROM HOUSE TO  
SEPTIC TANK = 10.0'

INVERT ELEV. OUT  
OF HOUSE = 536.35

FIRST FLOOR ELEV. = 543.0  
(NO BASEMENT)

WATER WELL  
EXISTING ELEV. = 545.2

MCKENDREE ROAD

ABANDONED  
BACK TRENCH

CERTIFICATION

I CERTIFY THE ABOVE MEASUREMENTS  
AND ELEVATIONS ARE ACTUAL AND  
CORRECT FOR THIS PROPERTY.

*(Signature)*  
ALEXANDER G. FELDMAN RPLS MD.#122

PLOT PLAN  
LOT 1

RICHARD M. HOUGH PROPERTY  
4<sup>TH</sup> ELECTION DISTRICT HOWARD CO. MD.  
SCALE: 1"=100' NOV., 1983

B: 1 1181

SEQUENCE NO. (OEP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

please print or type

OEP PERMIT NUMBER

HO-81-0379

fill in this form completely

Date Received

2/2/84-10:00AM

1283

OWNER INFORMATION

FELDMAN ALEXANDER

9501 BRASSIE PL

GAITHERSBURG MD 20879

B: 3

LOCATION OF WELL

HOWARD

RICHARD M HOGGH PROP

COOKSVILLE

COOKSVILLE

MILES FROM TOWN

DRILLER INFORMATION

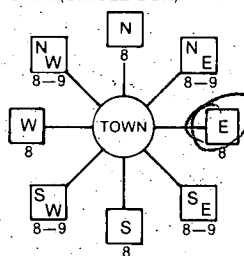
Austin Lawer 144

Keyser-Lawer Well Drilling Inc.

9125 Bethel rd. Austin Lawer 12-7-83

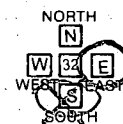
B: 4

DIRECTION OF WELL FROM TOWN



McKendree rd

ON WHICH SIDE OF ROAD



DISTANCE FROM ROAD

ENTER-FT or MI

B: 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.)

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)

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

A28436

COUNTY NAME, COUNTY NO., OEP SIGNATURE, DATE ISSUED, CO SIGNATURE, EXP. DATE, NORTH GRID, EAST GRID

APPROXIMATE DEPTH OF WELL

APPROXIMATE DIAMETER OF WELL

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)

- 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 deepen an existing well

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

APPROP. PERMIT NUMBER

FORCE FS WRITE INITIALS IN BOX PERMIT No. HO-81-0379

SPECIAL CONDITIONS

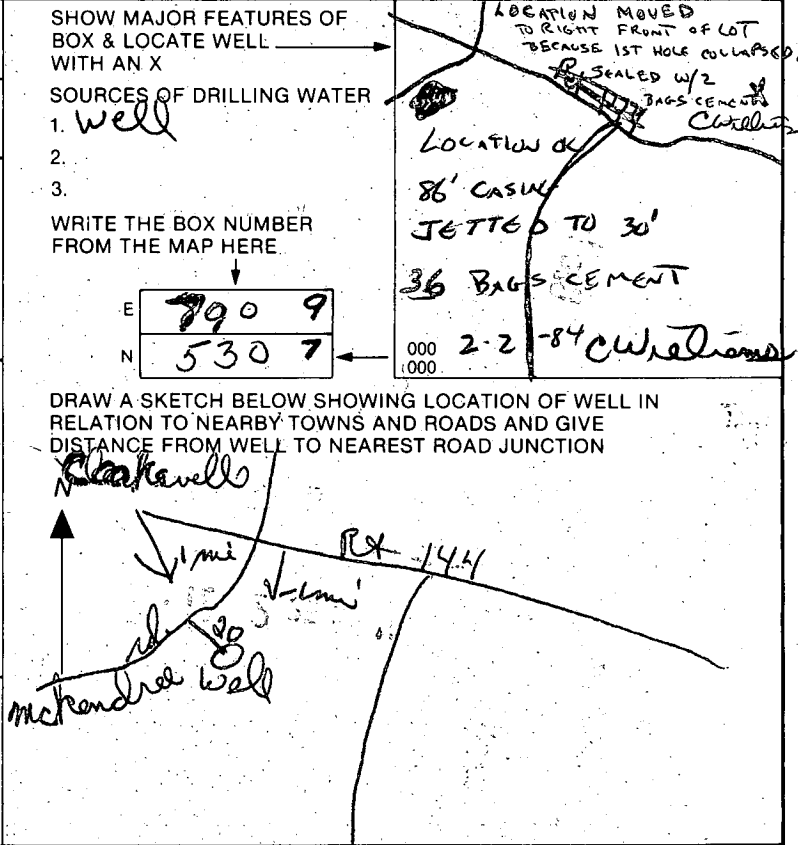
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

WRITE THE BOX NUMBER FROM THE MAP HERE

790 9, 530 7

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



C1 - 0900

SEQUENCE NO. (OEP USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

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

COUNTY NUMBER A 28436

DATE RECEIVED

DATE WELL COMPLETED

Depth of Well 400 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-81-0379

OWNER Feldman Alexander last name first name STREET OR RFD McKeandree Road TOWN Cooksville SUBDIVISION Richard Hough property SECTION LOT 1

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 FROM TO Check if water bearing

Table with 3 columns: Description, Feet From, Feet To. Rows include: Dirt (0-2), Soap Stone (2-73), Slate (73-400)

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 36 NO. OF POUNDS 3600 GALLONS OF WATER 216 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 86 ft.

CASING RECORD

MAIN CASING TYPE (S/T) Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 88 OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD

screen type or open hole (S/T, BR, HO, PL, OT) SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 56 60

Table for SCREEN RECORD with columns for depth (nearest ft.) and rows for each screen section (1-3).

GRAVEL PACK from to 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

C 3

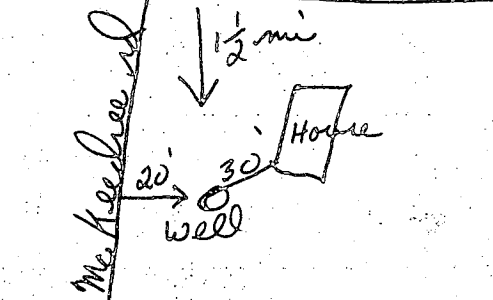
PUMPING TEST

HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min. to nearest gal.) 2 METHOD USED TO MEASURE PUMPING RATE Submersible WATER LEVEL (distance from land surface) BEFORE PUMPING 25 WHEN PUMPING 95 TYPE OF PUMP USED (for test) 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 (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. 144 Austin Slawer DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) Austin Slawer SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

DATE 2-2-84

WELL YIELD TEST DATA SHEET - FREDERICK COUNTY

REVIEWED BY Howard 2/6/84 J.S.

Maryland Well Permit No. 81-0379 Owner or Applicant Alexander Feldman

Location of Property (road) Mc. Kendrick rd.

Subdivision Richard Hough property Lot 1 Block      Plat      Sec.     

Depth of Well 400 ft Height of Measuring Point Above Ground 3 ft

Static Water Level Below Measuring Point 25 ft

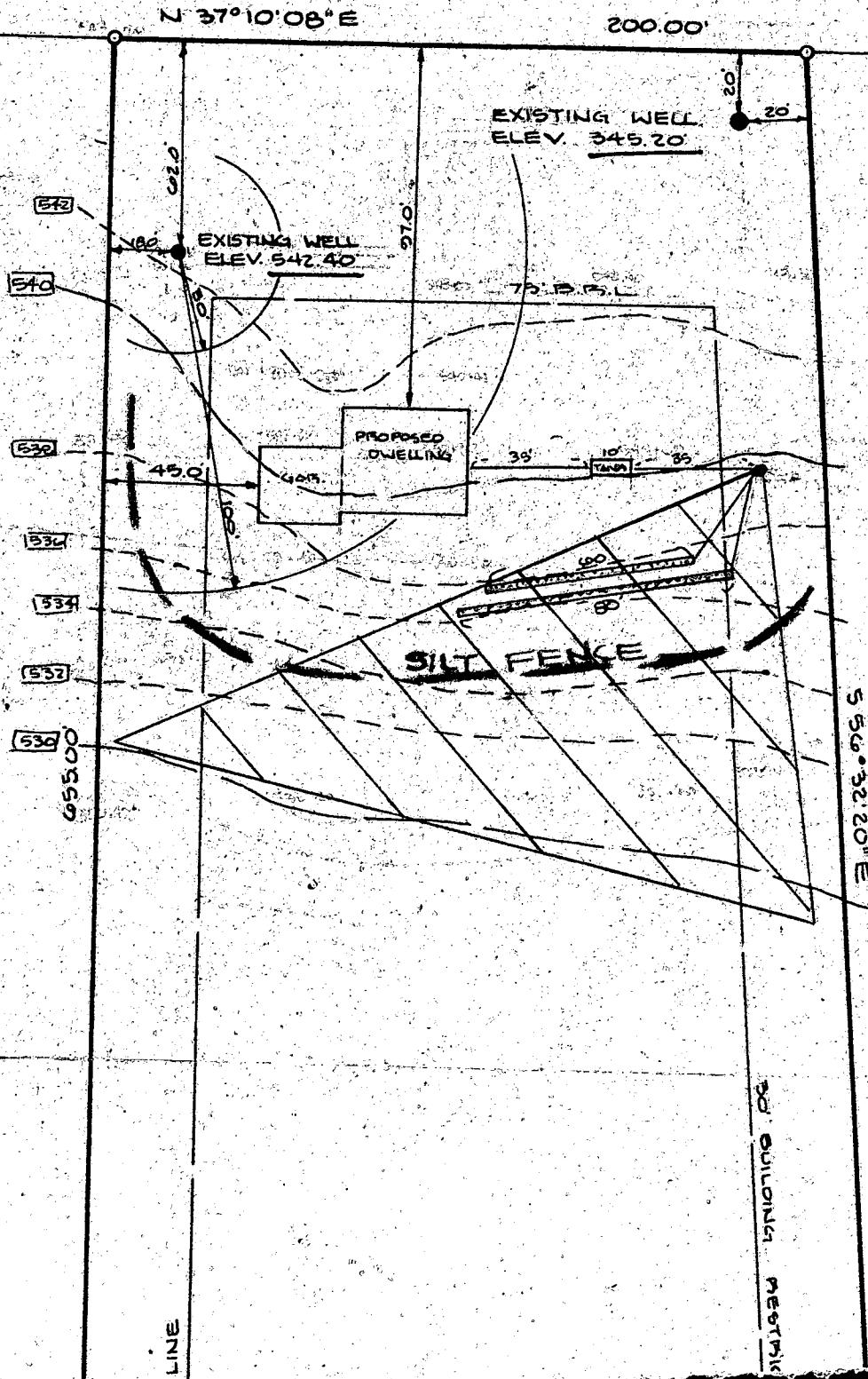
The first entry in the table must be when you begin the drawdown. Enter all appropriate information. Indicate when the drawdown phase ends and the recovery test begins.

TIME (CHRON.)	WATER LEVEL Below M.P.	PUMPING RATE	FLOW METER READING (if used)	CALCULATED FLOW (gallons per min.)
		Time to fill 1 gal. bucket		
9:55	25 ft.	5 sec.		11 gpm
10:10	95 ft.	5 sec.		11 gpm
10:25	95 ft.	37 sec.		1.6 gpm
10:40	95 ft.	37 sec.		1.6 gpm
10:55	95 ft.	37 sec.		1.6 gpm
11:10	95 ft.	37 sec.		1.6 gpm
11:25	95 ft.	37 sec.		1.6 gpm
11:40	95 ft.	37 sec.		1.6 gpm
11:55	95 ft.	37 sec.		1.6 gpm
12:10	95 ft.	37 sec.		1.6 gpm
12:25	95 ft.	37 sec.		1.6 gpm
12:40	95 ft.	37 sec.		1.6 gpm
12:55	95 ft.	37 sec.		1.6 gpm
1:10	95 ft.	37 sec.		1.6 gpm
1:25	95 ft.	37 sec.		1.6 gpm
1:40	95 ft.	37 sec.		1.6 gpm
1:55	95 ft.	37 sec.		1.6 gpm
2:10	95 ft.	37 sec.		1.6 gpm
2:25	95 ft.	37 sec.		1.6 gpm
2:40	95 ft.	37 sec.		1.6 gpm
2:55	95 ft.	37 sec.		1.6 gpm
3:10	95 ft.	37 sec.		1.6 gpm
3:25	95 ft.	37 sec.		1.6 gpm
3:40	95 ft.	37 sec.		1.6 gpm
3:55	95 ft.	37 sec.		1.6 gpm
4:10	95 ft.	37 sec.		1.6 gpm

I hereby certify that the yield test was conducted as described in State Health Department Regulations COMAR 10.17.13.07Q.

Keyser-Slower  
Signature of Well Driller

# McKENDREE ROAD



DISTRIBUTION BOX	EXISTING ELEVATION	540.00 ✓
	INVERT	537.00 ✓
TANK	EXISTING ELEVATION	540.00 ✓
	INVERT OUT	537.70 ✓
	INVERT IN	538.00 ✓
	INVERT AT HOUSE	538.70 ✓

GAS: 540.00  
 FF: 540.80 (-BSMT)

4/30/87  
 elevations  
 trenches sufficient for  
 3 BR House

*John*

BLDG. PERMIT SIGNED  
 AND RETURNED 4/2/87

BP11528  
*John*