

8-4-95
C/O 2:30

TanID - 05-414733

8/7/95 House conn.
needed DKS
P 50883

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

INDEXED

A 43084

DISTRICT 5th

DATE 7-31-95

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

313-2640

DATE SYSTEM APPROVED 9/29/95

INSPECTOR DKS

9/29/95 House conn. verified
by phone call
ALTER to Mr.
Rasmussen

Fogle's Septic Clean, Inc.

IS PERMITTED TO INSTALL X

ADDRESS 558-R Obrecht Road, Sykesville, Maryland 21784 PHONE 795-5674

SUBDIVISION Brierly LOT 13 ROAD 13850 Russell Zepp Drive

PROPERTY OWNER Jeffrey Lilly

ADDRESS

SEPTIC TANK CAPACITY 1500 GALLONS

NUMBER OF BEDROOMS 5

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 300

TRENCHES - Trench to be 3 feet wide. Inlet 4 feet below original grade. Bottom maximum depth 6 feet below original grade. Effective area begins at 4 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Place distribution box 160 feet down the 195.00' lot line and 10 feet off the same lot line (195.00') when facing the lot from Russell Zepp Drive. Run trenches along contour towards the rear of the lot.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8' diameter cleanout and cap to grade or above on septic tank. OK 4/20/95 DKS

PLANS APPROVED BY Donna K. Soe DATE 03/18/95

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; 90° ELBOWS NOT ACCEPTABLE.

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(ES) 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 35/40 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 PVA 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 APPROVAL ON THIS PERMIT

HD-260(6-90)

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.

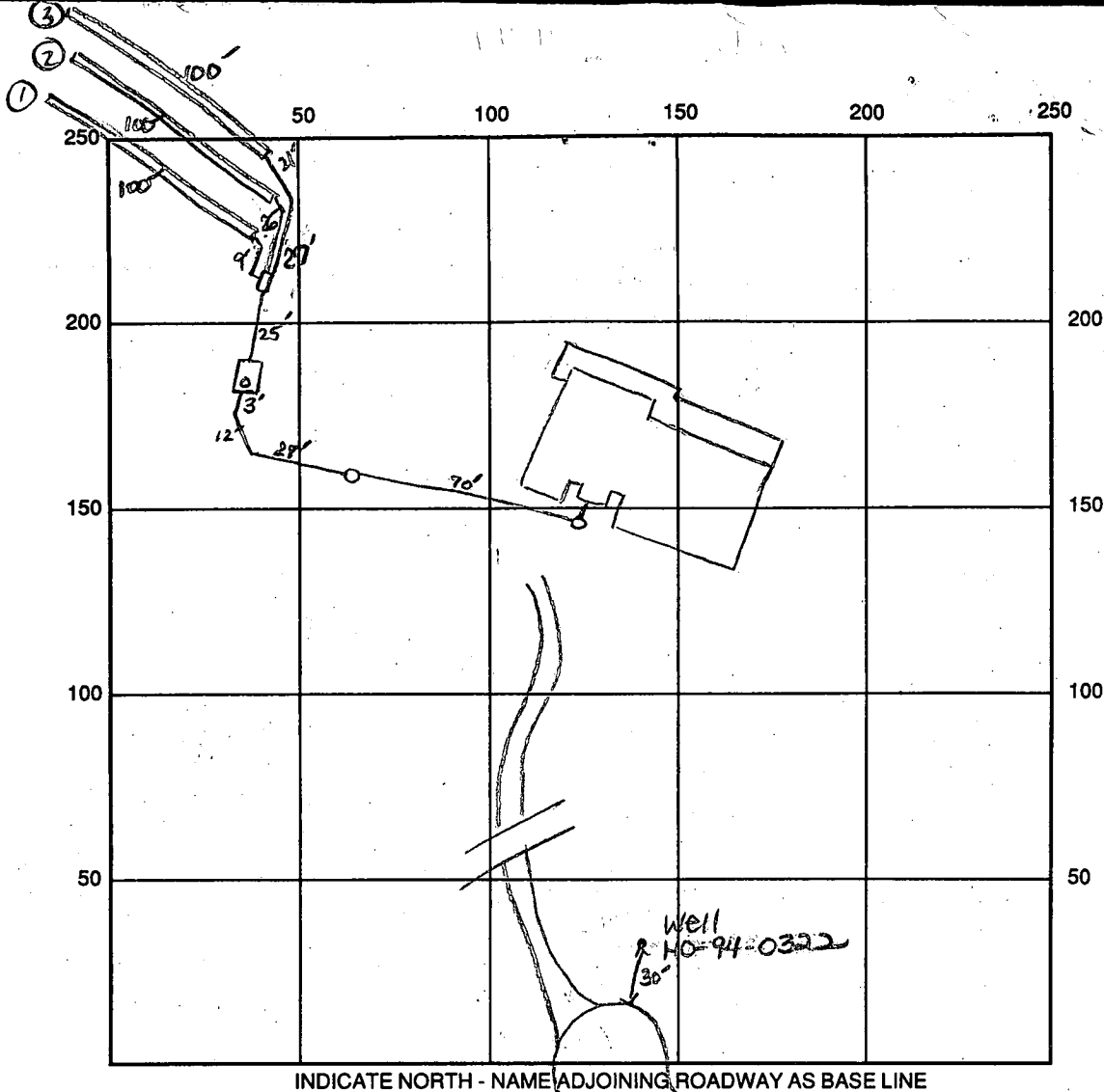
SEAL. PERMIT STAMP

AND RETURNED 6-2-98

Serial # B14 111972-

attached garage

A 43084



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL OK - 1500 gal

CLEANOUTS one at house, one in line, one on s.t.

DISTRIBUTION BOX LEVEL OK

DRAIN FIELD/TITLE DEPTH 6 FT.

TRENCH WIDTH 3 FT.

INLET DEPTH 4 FT.

EFFECTIVE GRAVEL DEPTH 2 FT.

TOTAL LENGTH ①100' ③100' FT.

NUMBER OF TRENCHES 3

~~ONE SIDEWALK~~ / BOTTOM AREA 900 SQ. FT.

DRYWALL INSIDE DIAMETER — FT.

EFFECTIVE DEPTH BELOW INLET — FT.

ABSORBENT AREA 900 SQ. FT.

REMARKS: 8/4/95 OK to cover from 2' off house to d.b. and continues. DKS

8/7/95 OK to cover all septic work. Still needs house connection. DKS

8/7/95 P.A. 4'± below grade - OK to cover. DKS

DATE SYSTEM APPROVED 9/29/93

INSPECTOR [Signature]

APPLICATION

PERCOLATION TESTING

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 461-9933

A 43084
P _____
DISTRICT 8th
DATE 9-20-88

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 RUSSELL ZEPP Jeffrey Lilly

ADDRESS 13790 HIGHLAND RD PHONE 854-2797
410-880-6291

PROSPECTIVE BUYER HENRY L. BLEVINS

ADDRESS 3600 WATERSVILLE RD PHONE 795-2337
MT. AIRY, MD 21771

PROPERTY LOCATION:

SUBDIVISION ZEPP SUBDIVISION LOT NO. 13

ROAD AND DESCRIPTION HIGHLAND ROAD HOWARD CO

ZIP: 21029 (13850 Russell Zepp Drive)

TAX MAP 34 PARCEL # 7 BLDG. PERMIT SIGNED
AND RETURNED 3/27/95

SIZE OF LOT 3.17 AC ± TYPE BLDG. SINGLE FAMILY
(SINGLE FAMILY DWELLING OR COMMERCIAL)
5 Bm

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

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

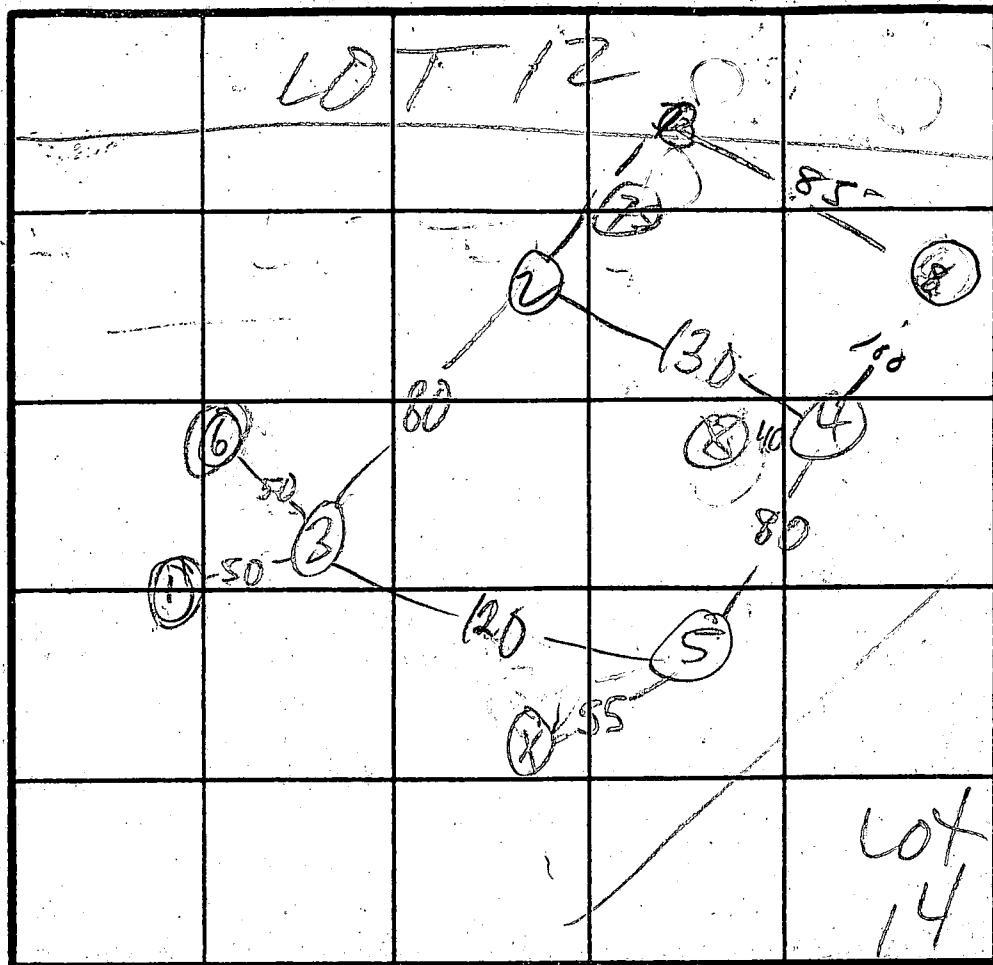
REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT

LOT 13
A43084

(3)
SOIL PROFILE

6' topsoil
deep red
yellow
silt clay
loam
5' dk red
brn silt
loam
high mica
13' 15% frags



(2) H1
(4) MED H1
(3) (5) LO
 $\bar{x} = 4.6$
180 ABR
Inlet 4'
Bottom 6'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
3/3/89	1S		CLAY	to bottom			FAIL
10	1V	8'	clay	to 8'	high mica pos	8'	
	2S	5'	12:30	12:32	12:32	12:36	4
			12:30	12:32	12:32	12:34	2
	2V	10'	clay to	4 1/2'	5% frags	dk pink/oral/purple	
	3S	6'	12:27	12:30	12:30	12:36	6
	3V	13'					
	4S	6'	12:41	12:42	12:42	12:45	3
	4V	11'	clay to	4'	10% frags		
	5S	7'	12:39	12:41	12:41	12:45	4
	5V	13'	clay to	5 1/2'	15% frags		

(6) 8' clay to bottom FAIL

REMARKS

HOLES 1 & 2 PS STAKED; DATA FOR (7) 4 (8) ON

TYPE OF SOIL

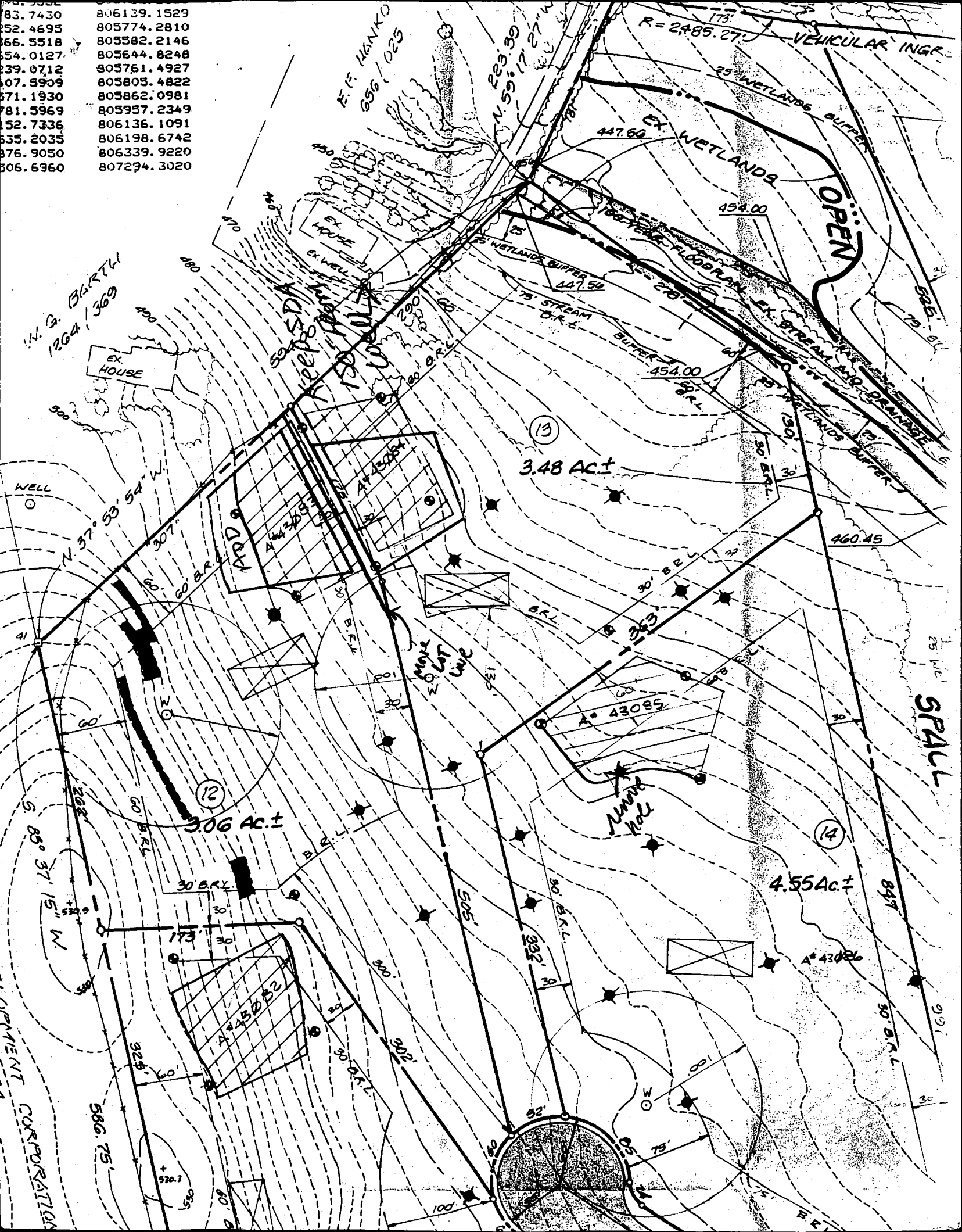
SHEET FOR LOT 12

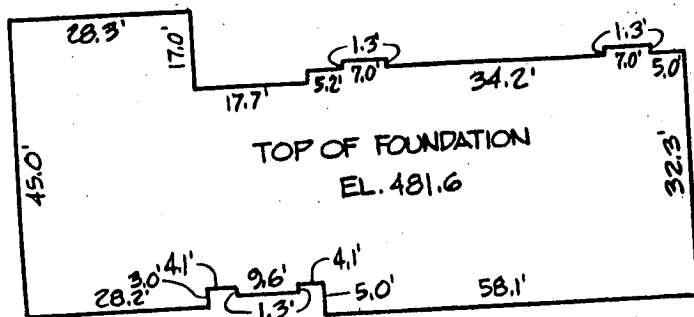
TESTED BY

M. R. F. K. in

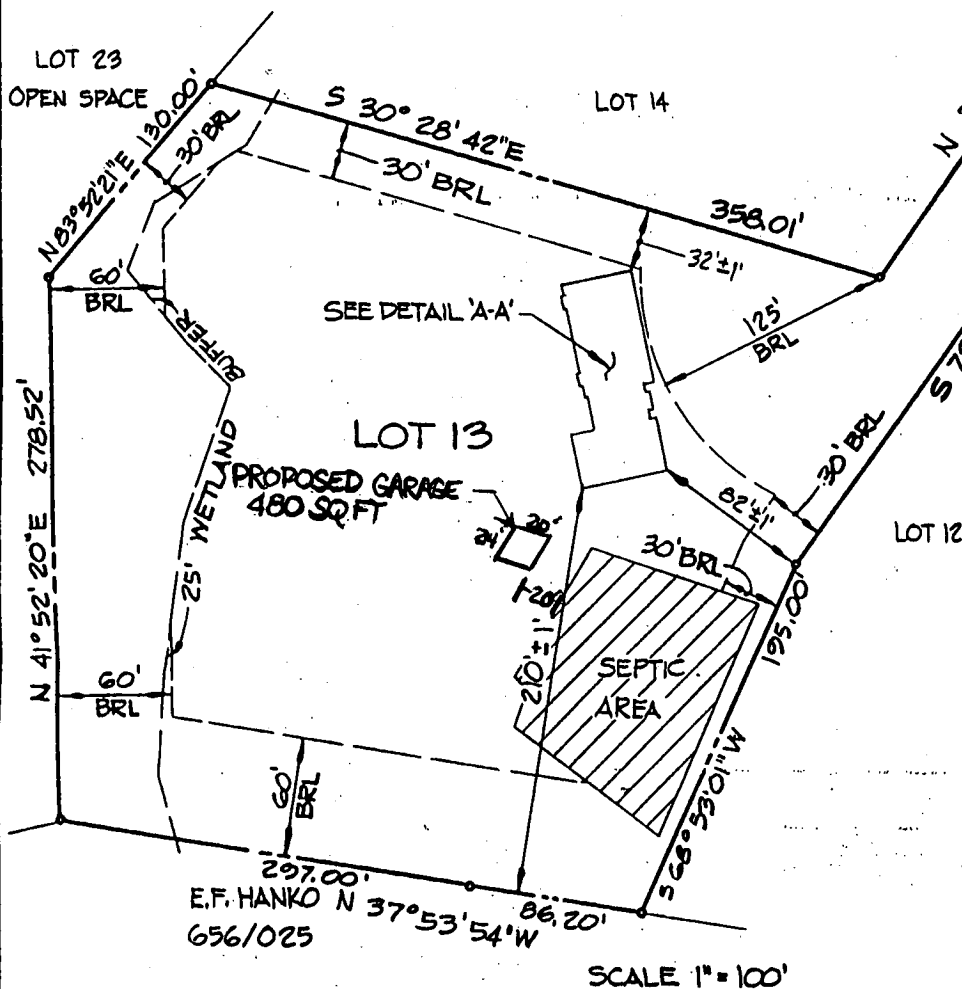
ALSO PRESENT

83.7430 806139.1529
 52.4695 805774.2810
 66.5518 805582.2146
 54.0127 805644.8248
 39.0712 805761.4927
 07.5909 805805.4822
 71.1930 805862.0981
 71.5969 805957.2349
 52.7336 806136.1091
 35.2035 806198.6742
 76.9050 806339.9220
 06.6360 807294.3020





DETAIL 'A-A'
SCALE 1" = 30'



6/2/98
Proposed garage
location OK
as shown
DS

'LOT 13'
BRIERLY
SECTION I LOTS 1-23
P.B. 10004

ADDRESS NO: 13850 RUSSELL ZEPP DRIVE
ABUTTING STREET HIGHLAND RD.

THE INFORMATION SHOWN HAS BEEN ESTABLISHED BY CURRENT ACCEPTABLE SURVEY PROCEDURES AND FROM AVAILABLE RECORD INFORMATION. THIS SURVEY IS TO BE USED FOR TITLE TRANSFER FINANCING, OR REFINANCING ONLY AND IS NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES, LOCATION OF FENCES, GARAGES, BUILDINGS, OR OTHER EXISTING OR FUTURE IMPROVEMENTS. FLOOD INSURANCE RATE MAP (FIRM) FLOOD ZONE 'C' AREA OF MINIMUM FLOODING PER COMMUNITY PANEL NUMBER 240044-002-B DECEMBER 4, 1986.



**MILDENBERG,
BOENDER & ASSOC., INC.**

Engineers Planners Surveyors

5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-6521 Wash. (410) 997-0298 Fax.

FOUNDATION	DATE: 7/28/95	FINAL	DATE:
DRAWN BY: WCB	SCALE: AS SHOWN		
PROJECT NO.: 95050	LOCATION DRAWING		



JOHN MILDENBERG
PROF. LAND SURVEYOR
MARYLAND No. 10718

Coordinate	North	East
256	500252.4895	805774.2810
626	500473.5537	806089.4623
631	500165.0104	806271.0512
669	500018.1063	805956.7189
670	500178.5615	800603.1004
677	500459.8653	805960.1850
672	500088.3581	806318.6226
718	500232.7601	806619.9099

10,000 sf septic area
Field layout Septic trenches
to minimize loss of full
size trees !!

Lot 12 Septic area

Dist. Box
1500 Gallon Septic Tank
w/ cleanout and cap

Lot 12

Dry Hole
e200
WAR

Adjust final field layout
of Driveway to minimize
loss of major trees

Septic Notes:

- Design based on 4 Bedrooms and File #A-43084
- Invert out • house 471.5
Invert in • Septic Tank 477.5
Invert out • Septic tank 477.0
Invert in • Dist. box 476.1
Invert out • Dist. box 476.0
Invert in • trench 1, 476.0
Invert in • trench 2,
Invert in • trench 3,
3. Trench to be 3' wide, 5' below grade on level ground with
2 feet stone below distribution pipe, 240 lf trench required,
300 lf provided.
- Trenches to be inspected before gravel is installed
- 1st and 2nd floors to be gravity fed, Basement to have
single stage ejector pump.

Approved Septic System Plan
Howard County Health Department

Signature

Date



Triadelphia Hill Road

Highland Road

Elliot Drive

Vicinity Map

nts

Limits
of
Disturbance

Entrance drive and paving
to be 12' wide w/8" CR-6
on Mirafi 500 engineering
fabric, and 2 layers of 1.5"
SN paving

Install "Stone Construction Entrance"
in accordance w/ Sediment Control Stds

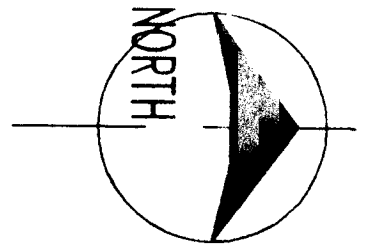
Lot 14 Well location

A=59.11', R=60.00'
New curb cut onto Russell Zepp Dr. constructed
with a swale flow per Std. Detail R 6.06

General Notes:

- Information taken from Zepp Subdivision Plan prepared by Vanmar Assoc.
dated June 1989, approved by County Health Dept Officer 9/19/89 and Planning
and Zoning Director 9/21/89.
5th Election District, Tax Map # 34, Parcel #7
Bearings and Distances taken from Record Plat 100004, dated 8/5/91, among the
Land Records of Howard County, by VANMAR Associates, Inc.
- Grading area (Limits of Disturbance) = 23,869 sf plus 4,800 sf entrance road = 28.6
All work to be accomplished in compliance with Specifications and Standards for Soil
and Erosion Control.
- There will be no grading within the buffer areas or septic area and no unnecessary
without the Owners approval.
- Notice to grading and utility contractors! The minimum number of trees are to be
removed. Owner and Construction Manager will field mark absolute limit of disturb.
Any unnecessary disturbance or loss of trees will be replaced by the responsible
contractor at his expense! Grading Contractor will be responsible for calling Miss
5. Detailed Landscape plant list to be prepared for Owners approval after rough gradin
6. Hatched areas designate 10,000 sf sewerage easements.

Length of trench to be determined
at time of septic permit



Site Plan

B 1 2186	SEQUENCE NO. (DP USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER 40-94-0322
Date Received (APA) 12/14/94		B 3 LOCATION OF WELL	
OWNER INFORMATION Lilly Jeff		Adward	
8592 Dorsley Run Road		Brickly	
Jessup		Cracksville	
DRILLER INFORMATION Driller's Name: Paul M. Fabiszak Firm Name: G. Edgar Harr Sons' Corp. Address: 12047 Falls Rd. Cockeysville 21030 Signature: <i>[Signature]</i> Date: 12/12/94		SECTION 44 LOT 13 52 NEAREST TOWN Cracksville MILES FROM TOWN (enter 0 if in town) 2 MI	
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 750		B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) 	
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)		NEAR WHAT ROAD Russell Zepp Drive ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) 300 DISTANCE FROM ROAD ENTER FT OR MI FT	
APPROXIMATE DEPTH OF WELL 200 FEET APPROXIMATE DIAMETER OF WELL 6 INCH		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard COUNTY NAME A43084 COUNTY NO. STATE SIGNATURE Mark E. Rifkin DATE ISSUED 1/30/96 NORTH GRID 500000 EAST GRID 0806000	
METHOD OF DRILLING (circle one) BORED (or Augered) ☒ JETTED ☐ Jettied & DRIVEN ☐ AIR-ROTARY ☐ AIR-PERCUSSION ☒ ROTARY (Hydraulic Rotary) ☐ CABLE ☐ REVERSE-ROTARY ☐ DRIVE-POINT ☐ other _____		SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN 'X' SOURCES OF DRILLING WATER 1. 2/27/95 10:00 2. 80'± OPEN GROUT IN 3. 200' DEEPER PROGRESS 3' CASING A.G. WRITE THE BOX NUMBER FROM THE MAP HERE 8006 500	
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-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS ☐ THIS WELL WILL DEEPEMED AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) _____		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 	
Not to be filled in by driller (OEP USE ONLY)			
APPROX. PERMIT NUMBER GAP			
FORCE MIR WRITE INITIALS IN BOX PERMIT No. 40-94-0322			
SPECIAL CONDITIONS			

NOTE = APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED =

C1 3561

SEQUENCE NO.
(DENV USE ONLY)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 43084

ST/CO USE ONLY
DATE RECEIVED

8						13
---	--	--	--	--	--	----

DATE WELL COMPLETED

0	3	0	6	9	5
---	---	---	---	---	---

Depth of Well

22	2	0	0	26
----	---	---	---	----

(TO NEAREST FOOT)PERMIT NO.
FROM "PERMIT TO DRILL WELL"

28	29	30	31	32	33	34	35	36	37
H0-94-0322									

OWNER Lilly last name Russell Zepp Dr first name Jeff TOWN Clarksville
STREET OR RFD BRIERLY SUBDIVISION SECTION LOT 13

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

Overburden	0	15	
Mud & Boulders	15	85	
Gray Rock	85	200	x

water was encountered at
105 & 180'Well #1 200' Dry (backfilled)
Well #2 600' Dry (backfilled)IN HARD ROCK AREAS, IDENTIFY SPECIFICALLY
WHERE SATURATED FRACTURES WERE OBSERVED.

WELL HYDROFRACTURED

yes
Yno
N

- 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 26.04.04 "WELL CONSTRUCTION"
AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE
ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRE-
SENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF
MY KNOWLEDGE.

DRILLERS IDENT. NO.

399

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

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

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)yes
Yno
N

TYPE OF GROUTING MATERIAL

CEMENT CM BENTONITE CLAY BCNO. OF BAGS 35 NO. OF POUNDS 3500GALLONS OF WATER 216

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 92 ft.
(enter 0 if from surface)

CASING RECORD

casing
types
insert
appropriate
code
belowSTEEL ST CONCRETE CO
PLASTIC PL OTHER OTMAIN CASING TYPE Nominal diameter
top (main) casing (nearest inch)ST
60 616
63 64Total depth
of main casing
(nearest foot)92
65 70OTHER CASING (if used)
diameter inch depth (feet)
from to

screen type
or open hole
insert
appropriate
code
below

SCREEN RECORD

STEEL ST BRASS BR OPEN HOLE HO
BRONZE PL OTHER OT
PLASTICC2
DEPTH (nearest ft.)
1 40 92 200
2 92 200
3 200

SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH)

from to

GRAVEL PACK IF WELL DRILLED WAS
FLOWING WELL INSERT
F IN BOX 68MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.)

70

72

W Q

74 75 76

TELESCOPE
CASINGLOG
INDICATOR

OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 3PUMPING RATE (gal. per min. to nearest gal.) 13METHOD USED TO MEASURE PUMPING RATE Submersible

WATER LEVEL (distance from land surface)

BEFORE PUMPING 31WHEN PUMPING 42

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

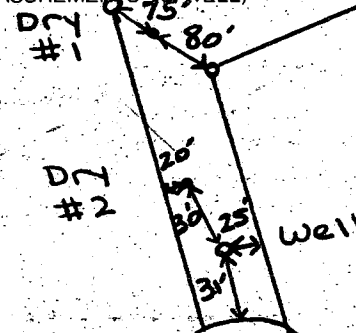
IF DRILLER INSTALLS PUMP, THIS SECTION
MUST BE COMPLETED FOR ALL WELLS
EXCEPT HOME USE
TYPE OF PUMP INSTALLED
PLACE (A,C,J,P,R,S,T,O)
IN BOX - SEE ABOVECAPACITY:
GALLONS PER MINUTE (to nearest gallon)

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)

COUNTY

Russell Zepp