

C1 9016

SEQUENCE NO. (MDE 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

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 5 18 89

Depth of Well 200 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO 95-1734

OWNER Ziegler, Natalie; STREET OR RFD Major Lane; TOWN ELLIOTT CITY; SUBDIVISION Carroll-Ziegler PRO. SECTION; LOT 3

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Red & Brown Soil, Brown Shale, and Gray Limestone.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N); TYPE OF GROUTING MATERIAL (CEMENT, BENTONITE CLAY); NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER; DEPTH OF GROUT SEAL

CASING RECORD

Case types insert appropriate code below; MAIN CASING TYPE (S1); Nominal diameter top (main) casing; Total depth of main casing

OTHER CASING (if used) diameter, depth (feet)

SCREEN RECORD

screen type or open hole (S1, BR, HO); insert appropriate code below

C3

PUMPING TEST

HOURS PUMPED (03); PUMPING RATE (8.5); METHOD USED TO MEASURE PUMPING RATE (194L.); WATER LEVEL (56 ft. before, 60 ft. when pumping); TYPE OF PUMP USED (S)

PUMP INSTALLED

DRILLER INSTALLED PUMP (YES/NO); TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O); CAPACITY: GALLONS PER MINUTE; PUMP HORSE POWER; PUMP COLUMN LENGTH; CASING HEIGHT

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y/N)

CIRCLE APPROPRIATE LETTER: A (Abandoned and Sealed), 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"

DRILLERS LIC. NO. M SD 009; DRILLERS SIGNATURE; LIC. NO. D

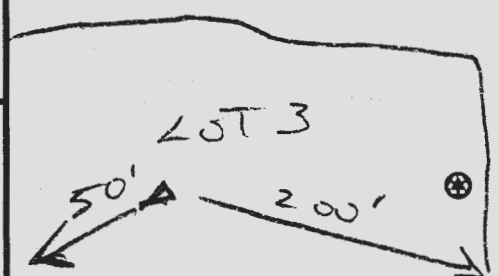
Table with columns: T, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 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. Includes slot size and diameter of screen.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

TELESCOPE CASING LOG INDICATOR OTHER DATA

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)



B 1 5688

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

5 3029 please print or type

STATE PERMIT NUMBER

HD-95-1734 fill in this form completely

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13 2iegke, Natalie 15 Last Name Owner First Name 34 4288 Manor Lane 36 Street or RFD 55 Ellicott City Md. 21042 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

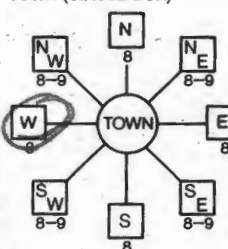
8 COUNTY Howard 21 Carroll-Ziegler Property 23 SUBDIVISION SECTION 44 46 LOT 3 48 50 Ellicott City 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 7 73 76 77 78

DRILLER INFORMATION

Allen Compton MS D 009 76 License No. 81 Fogle's Well Drilling Firm Name 6003 Woodbine Rd Address Allen Compton 1-26-09 Signature Date

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



3841 Manor Lane 11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 100 37 DISTANCE FROM ROAD FT ENTER FT OR MI 38 39

TAX MAP: 23 BLK: 10 PARCEL 130

B 2 WELL INFORMATION

APPROX. PUMPING RATE 5 8 12 (GAL. PER MIN.) AVERAGE DAILY QUANTITY NEEDED 500 14 20 (GAL. PER DAY)

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) INDUSTRIAL, COMMERCIAL, DEWATERING PUBLIC WATER SUPPLY WELL TEST, OBSERVATION, MONITORING GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME A523238 COUNTY NO. STATE SIGNATURE INSERT S DATE ISSUED 1/29/09 State Dept 1/29/09 41 CO SIGNATURE EXP. DATE NORTH GRID 516 000 EAST GRID 828 000 50 55 57 63

APPROXIMATE DEPTH OF WELL 300 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. 2. 3.

4/14/09 - Radon sample collected @ Yeld - 8.5 ppm - 15 bags - 60' X last mg. 000 000

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-Percussion ROTARY (Hydraulic Rotary) CABLE REverse-ROTary DRive-POINT other

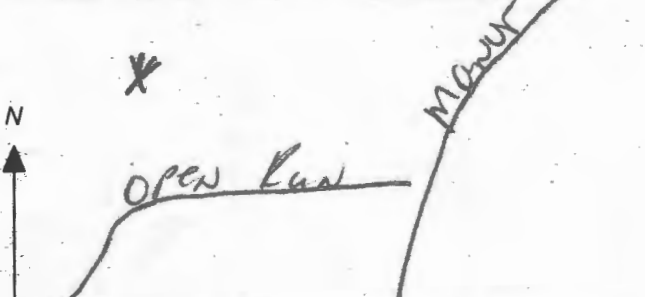
WRITE THE BOX NUMBER FROM THE MAP HERE

E 8288 N 52016

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 DEEPEM AN EXISTING WELL

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 (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER 54 GAP 63 PERMIT No. HD-95-1734 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE FORMS IF NEEDED Radon water sample needed at Yeld Test

Field Test Data Sheet

County File # _____

District _____

MD Well Permit # HO 95-1734

Date of Test: 5-18-09

Subdivision Name: Carroll - Ziegler

Section _____ Lot # 3

Street Address: MANOR Lane

Measuring Point (MP) Description: Top of casing
(for ex. "Top of casing")

Distance from MP to ground surface 2 ft.

Well Depth 200' ft.

Well Driller: Fogle's Well Drilling

Must be submitted with the State of Maryland Well Completion Report

Submit to:

Pump Start Time	Static Water level	Pumping Rate	Calculated Flow
	<u>56</u> ft.	() Time to fill <u>1</u> gal. bucket () Flow meter reading (if used)	(gallons per minute)
<u>8:00</u>			<u>20</u>
TIME	WATER LEVEL BELOW M.P.		
Water level and pumping rate must be recorded every 15 minutes			
1. <u>8:00</u>	<u>56</u> ft.	<u>3</u>	<u>20</u> GPM
2. <u>8:15</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
3. <u>8:30</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
4. <u>8:45</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
5. <u>9:00</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
6. <u>9:15</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
7. <u>9:30</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
8. <u>9:45</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
9. <u>10:00</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
10. <u>10:15</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
11. <u>10:30</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
12. <u>10:45</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
13. <u>11:00</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
14. <u>11:15</u>	<u>60</u> ft.	<u>7</u>	<u>8.5</u> GPM
15.	ft.		GPM
16.	ft.		GPM
17.	ft.		GPM
18.	ft.		GPM
19.	ft.		GPM
20.	ft.		GPM
21.	ft.		GPM
22.	ft.		GPM
23.	ft.		GPM
24.	ft.		GPM
25.	ft.		GPM
26.	ft.		GPM
27.	ft.		GPM
28.	ft.		GPM
29.	ft.		GPM
30.	ft.		GPM

NOTES:

Maura J. Rossman, M.D., Health Officer

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: FEETEK Telephone #: _____
Address: _____

Must circle one: Licensed Plumber / Licensed Well Driller / Licensed Well Pump Installer

License # and name of individual responsible for the field installation:

Name (Print): _____ License# _____

***A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.**

Name of Property Owner: _____ Telephone #: _____
Subdivision: _____ Lot #: _____ Well Tag #: HO-95-1734
Site Address: 4989 CASTLEBRIDGE

Submersible Pump Data

Make: _____
Model #: _____
Pump Capacity _____
Well Yield: _____

Pitless Adapter

Make: _____ +
Model#: _____
GPM Depth: _____ (36" min)
GPM NSF/WSC approved: _____

Well Cap and Electric Conduit

Two piece watertight cap: _____
Screened, vented well cap: _____
Cap secured to casing: _____
Conduit min 18" B.G.: _____
Conduit secured to well cap: _____

Depth of well encountered at time of pump installation: _____ (feet)
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Must circle one: Torque arrestors / Cable guards / Other acceptable method used

Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing

Piping to house

Type: _____
PSI: _____ (160 psi min)
Depth of supply line: _____ (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: _____
Length of sleeve (5' minimum from foundation): _____
Sleeve sealed properly: _____

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation _____ date _____

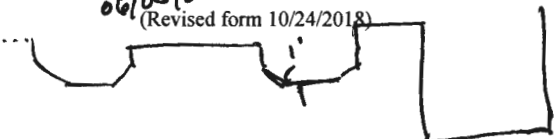
For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 06/05/2020 Date Insp. Approved: 06/05/2020 Inspector: _____

Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade
Two piece cap installed and attached to casing securely
Elec. conduit extends at least 18" below grade/attached to cap properly
Safety rope not outside of well cap/casing
Correct well tag attached properly and casing 8" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter

36" 06/05/2020
22" 06/05/2020
15" 06/05/2020

House
06/05/2020
(Revised form 10/24/2018)



06/05/2020
SLEEVE EXTENDS INTO YARD
NEAR WELL CASING.

Maura J. Rossman, M.D., Health Officer

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – SEPTEMBER 11, 2021

March 11, 2021

Homeowner
4898 Castlebridge Road
Ellicott City, MD 21042

RE: Carroll/Ziegler Property, Lot 3
4898 Castlebridge Road
Building Permit: B19002185
Well Permit: HO-95-1734

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **10/9/2020**. Final approval of the well line connection to the dwelling was granted on **6/5/2020**. The well construction was completed on **5/18/2007**. Water samples were collected on **11/6/2020, 1/15/2021**.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking.

Gross Alpha and Beta samples were also collected on **2/23/2021**. Results showed a Gross Alpha level of **8.0 ± 0.0 pCi/L** and **Gross Beta** level of **11.2 ± 0.0 pCi/L**. The Gross Alpha was below the maximum contaminant level (MCL) of 15 pCi/L and the Gross Beta was below the target level of 50pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year). At the time of testing and with respect to these parameters, the well water is safe for all uses.

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-1734. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

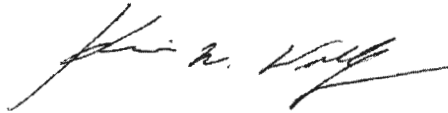
This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the *Annotated Code of Maryland, Environment Article, 9-1311*, subject to a fine of up to \$500 or imprisonment not to exceed three months.**

Maura J. Rossman, M.D., Health Officer

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a certified water quality laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website: <http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

In closing, please refer to our "Homeowner Fact Sheet" for understanding your onsite sewage disposal system. You will also find a link to Maryland Department of the Environment website which elaborates in further detail operation and maintenance of your Septic System.

Approving Authority,



Kevin M Wolf, L.E.H.S., REHS/R.S., Supervisor
Groundwater Management Section
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File



Bureau of Environmental Health
 7178 Columbia Gateway Drive, Columbia, MD 21046-2147
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location:

Carroll-Ziegler Prop. 2 Hru 7 + PP "L" 3841 Manor Lane
 Subdivision/Property Name Lot# Road Name

The well site has been staked by Benchmark Engineering, Inc.
 (professional land surveyor or company employing professional land surveyors)
 on 2-1-09 (date) and does not require a site inspection.

The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/05

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #: 142287 Account #: 1920
Reference: Robert L Feezer Company: Robert L Feezer Co- New Homes
Location: 4898 Castlebridge Road Requested By: Rick Cross
Ellicott City, MD 21042 Source: Well Water
Date/ Time Collected: 1/15/2021 1138 Site: Raw Water Sample Tap
Date/Time Rec'd: 1/15/2021 1408 Treatment: **
Chlorine ppm: Free: ND Total: ND pH: 6.3
Collected By: J. Yeager 0819JY Well #: HO-95-0688

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	1/16/2021 / 1600 / BCD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	1/16/2021 / 1600 / BCD
Turbidity	8.99	NTU	<10	SM20 2130B	1/15/2021 / 1610 / CRS

NOTES:

- 1 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 2 NTU = Nephelometric Turbidity Units
- 3 pH & chlorine tested on site
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 ND:None Detected
- 6 Visual well check: Sealed, vented cap
- 7 **Sample collected prior to Neutralizer/Softener/Conditioner

Reason for Test : Use & Occupancy

Building Permit # : 19002185

Date Reported: 1/18/2021

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #: 141068 Account #: 1920
Reference: Robert L Feezer Company: Robert L Feezer Co- New Homes
Location: 4898 Castlebridge Road Requested By: Rick Cross
Ellicott City, MD 21042 Source: Well Water
Date/ Time Collected: 11/6/2020 1430 Site: Raw Water Sample Tap
Date/Time Rec'd: 11/6/2020 1540 Treatment: **
Chlorine ppm: Free: ND Total: ND pH: 6.8
Collected By: R. Ott 0266RO Well #: HO-95-0688

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	5.3	MPN/ 100 ml	<1.0	SM20 9223B	11/7/2020 / 1000 / LLO
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	11/7/2020 / 1000 / LLO
Nitrate	<1.0	mg/L	10	601	11/6/2020 / 1610 / CRS
Sand	ND	mg/L	5	Visual/Gravimetric	11/6/2020 / 1630 / CRS
Turbidity	21.5	NTU	<10	SM20 2130B	11/6/2020 / 1630 / CRS

NOTES:

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NTU = Nephelometric Turbidity Units
- 4 pH & chlorine tested on site
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 pH & Chlorine level tested on site
- 8 **Sample collected prior to Neutralizer/Softener/Conditioner

Reason for Test : Use & Occupancy
Building Permit # : 19002185

Date Reported: 12/14/2020

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Tancytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #: 142910 Account #: 1920
Reference: Robert L Feezer Company: Robert L Feezer Co- New Homes
Location: 4898 Castlebridge Road Requested By: Rick Cross
Ellicott City, MD 21042 Source: Well Water
Date/ Time Collected: 2/23/2021 0948 Site: Basement Powder Room
Date/Time Rec'd: 2/23/2021 1518 Treatment: Neutralizer/Softener/Conditioner
Chlorine ppm: Free: ND Total: ND pH: 7.6
Collected By: R. Ott 0266RO Well #: HO-95-0688

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	0.4	pCi/L	****	903.1	3/4/2021 / 1354 / MJN
Radium-228	<0.9	pCi/L	****	Ra-05	3/3/2021 / 1227 / MJN
Gross Alpha, Short Term	<2.5	pCi/L	15	900.0	2/26/2021 / 1000 / MJN
Gross Beta, Short Term	6.5	pCi/L	50	900.0	2/26/2021 / 1000 / MJN
Gross Alpha, Long Term	<2.5	pCi/L	15	900.0	3/5/2021 / 0634 / MJN
Gross Beta, Long Term	6.6	pCi/L	50	900.0	3/5/2021 / 0634 / MJN

NOTES:

- ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
 - Long Term Gross Alpha Detection Limit: 2.5 pCi/L; Gross Alpha Error: +/- 1.5 pCi/L
 - Long Term Gross Beta Detection Limit: 1.7 pCi/L; Gross Beta Error: +/- 1.3 pCi/L
 - pCi/L = picocuries per liter
 - Radium 226 Detection Limit: 0.1 pCi/L; Radium 226 Error: +/- 0.2 pCi/L
 - Radium 228 Detection Limit: 0.9 pCi/L; Radium 228 Error: +/- 0.6 pCi/L
 - Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
 - Short Term Gross Alpha Detection Limit: 2.5 pCi/L; Gross Alpha Error: +/- 1.3 pCi/L
 - Short Term Gross Beta Detection Limit: 1.7 pCi/L; Gross Beta Error: +/- 1.3 pCi/L
 - Sub-contracted to Reference Lab #278
 - ND:None Detected
 - Visual well check: Sealed, vented cap
 - pH & Chlorine level tested on site
- Reason for Test : Use & Occupancy
Building Permit # : 19002185

Date Reported: 3/9/2021

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #: 142909 Account #: 1920
Reference: Robert L Feezer Company: Robert L Feezer Co- New Homes
Location: 4898 Castlebridge Road Requested By: Rick Cross
Ellicott City, MD 21042 Source: Well Water
Date/ Time Collected: 2/23/2021 0953 Site: Raw Water Sample Tap
Date/Time Rec'd: 2/23/2021 1518 Treatment: **
Chlorine ppm: Free: ND Total: ND pH: 6.8
Collected By: R. Ott 0266RO Well #: HO-95-0688

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	2.0	pCi/L	****	903.1	3/4/2021 / 1354 / MJN
Radium-228	4.6	pCi/L	****	Ra-05	3/3/2021 / 1227 / MJN
Gross Alpha, Short Term	8.0	pCi/L	15	900.0	2/26/2021 / 1000 / MJN
Gross Beta, Short Term	11.2	pCi/L	50	900.0	2/26/2021 / 1000 / MJN
Gross Alpha, Long Term	3.3	pCi/L	15	900.0	3/5/2021 / 0634 / MJN
Gross Beta, Long Term	10.2	pCi/L	50	900.0	3/5/2021 / 0634 / MJN

NOTES:

- ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- Long Term Gross Alpha Detection Limit: 1.4 pCi/L; Gross Alpha Error: +/- 1.4 pCi/L
- Long Term Gross Beta Detection Limit: 1.5 pCi/L; Gross Beta Error: +/- 1.4 pCi/L
- pCi/L = picocuries per liter
- Radium 226 Detection Limit: 0.2 pCi/L; Radium 226 Error: +/- 0.4 pCi/L
- Radium 228 Detection Limit: 0.9 pCi/L; Radium 228 Error: +/- 0.9 pCi/L
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- Short Term Gross Alpha Detection Limit: 1.5 pCi/L; Gross Alpha Error: +/- 2.0 pCi/L
- Short Term Gross Beta Detection Limit: 1.5 pCi/L; Gross Beta Error: +/- 1.4 pCi/L
- Sub-contracted to Reference Lab #278
- ND:None Detected
- Visual well check: Sealed, vented cap
- **Sample collected prior to Neutralizer/Softener/Conditioner

Reason for Test : Use & Occupancy
Building Permit # : 19002185

Date Reported: 3/9/2021



Howard County
Health Department

Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

Thursday, March 13, 2008

IMPORTANT

MEMORANDUM

To: FILE

From: Sara Sappington, R.S.
Well and Septic Program

Re: Carroll Ziegler Lots 3, 4, 5

Wells located on the referenced lots may need special conditions on the well permits due to their locations.

BE FOUND:
 ETC. MOVEMENT FORWARD
 3) A HAWKLAND COGNITIVE SYSTEM AS PROJECTED BY HOWARD COUNTY 2004 AND 2010.
 NO-DEED PER THE OCTOBER 4, 2013 HOWARD COUNTY

IE "MORE OR LESS"
 IS BASED ON THE PLAT ENTITLED "CARROLL-ZIEGLER PROPERTY, TRACT PARCEL 1, NON-BUILDABLE PRESERVATION PARCELS 'M' AND 'N' PARCEL 'T' RECORDED AS PLAT NO. 21055-21056.

ELONGS ON PARCELS 'M' AND 'N' TO THE HAWKLAND COUNTY REQUIREMENTS OF SECTION 16.1124 OF THE HOWARD COUNTY TITLE ACT IS A RESUBDIVISION THAT DOES NOT CREATE ANY NEW LOTS OR PARCELS AND DOES NOT CHANGE THE SIZE OF 1 TO A HAWKLAND HISTORICAL TRUST ZONE OF EASEMENT DATED 6/24/2004 AND THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, IN UNDER EXEMPTED ON 5/23/07.

SECTION LINE:
 LEGGE THERE ARE NO CEMETERY LOCATIONS ON-SITE. EXISTING COVER OR TREES, OR PLACEMENT OF NEW STRUCTURES OF WETLANDS, STREAMS, OR OTHER BUFFERS AND FOREST AND 100 YEAR FLOOD PLAIN, UNLESS APPROVED BY DPZ.

DESIGN OF PLANNING AND ZONING FILE REFERENCES FOR THIS 1. SP-06-19, RE-06-10, F-09-228, SP-07-05, F-07-022, 172, F-08-140, WP-10-139, F-11-050.

DESIGNED BY THE DIRECTOR OF THE SUBDIVISION AND LAND DEVELOPMENT 45-2003 AND THE AMENDED ZONING REGULATIONS PER CE 32-2013.

1 THESE LOTS OR PARCELS MUST COMPLY WITH SETBACK AND BUFFER ETC. OF SUBDIVISION OF A BUILDING OR GRADING PER APPLICATION. OWNER USE ON THIS PLAN.

THE PROJECT:
 CITY AND FOREST CONSERVATION EASEMENTS DEVELOPER RESERVES NO ASSOCIATED WITH THIS PLAT FOR SITES, STREAMS AND FOREST CONSERVATION (EASEMENTS AS FOREST CONSERVATION THROUGHOUT ALL LOTS/PARCELS). ANY COMPONENTS OF THE BE SUBJECT TO THE EASEMENTS HEREBY RESERVED WHETHER OR NOT 3) CONNECTING SAID LOTS/PARCELS). DEVELOPER SHALL EXECUTE AND MAINTAIN HEREBY RESERVED EASEMENTS WITHIN THE PROPERTY.

ACCEPTANCE BY HOWARD COUNTY, THE COUNTY SHALL ACCEPT THE (E) OF EASEMENTS IN THE LAND RECORDS OF HOWARD COUNTY.

NON-BUILDABLE PRESERVATION PARCELS 'M' AND 'N' AND PARCELS 'P' AND 'T' WILL BE PRIMARILY OWNED WITH HOWARD COUNTY PARCELS DESIGNATED BY HOWARD COUNTY AGRICULTURAL LANDS PARCELS HAVE NO FUTURE DEVELOPMENT POTENTIAL UNDER EXEMPTED FROM REGULATIONS.

WORKED FOR THIS PROJECT UNDER F-06-140.
 ON NOVEMBER 28, 2008 BY THE DIRECTOR OF PLANNING AND ZONING, WAIVE THE FOLLOWING: SECTION 16.1124(a) - THE DELINEATION OF BOUNDARY EASEMENT SKETCH PLAN AND FINAL PLAN FOR A BULK PARCEL AND (b) - THE DELINEATION AND PROTECTION OF WETLANDS, WETLAND THE PRESUMED EASEMENT SKETCH PLAN AND FINAL PLAN FOR A BULK (117)(c) - THE PREPARATION OF A FOREST CONSERVATION PLAN AND VARIATION OBLIGATION FOR A BULK PARCEL SUBDIVISION. SECTION LOT DESIGN, LOT ACCESS AND HIGHWAY FRONTAGE.

PARCELS AND BULK PARCELS SHALL NOT DENY DIRECT ACCESS ON A QUARTER ACRES TO A BULK PARCEL SUBDIVISION. THE LENGTH OF S SHALL NOT EXCEED 1500 FEET FOR CLUSTER AND NON-CLUSTER LOTS. PRESERVATION PARCELS ON BULK PARCELS SHALL HAVE A 50' PUBLIC STREET FRONTAGE PROVIDE ACCESS TO THE PROPERTY. PERMIT TO PROVIDE A LANDSCAPING PLAN AND LANDSCAPING FOR A BULK S SUBJECT TO THE FOLLOWING CONDITIONS:

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3) EXISTING 50' PRIVATE USE-IN-COMMON RESERVATION EASEMENTS (S) CONVERTED TO A PUBLIC ROAD TO SERVE THE NEW RESIDENTIAL LOTS IN THE RESUBDIVISION. THE REQUIREMENT SHALL BE COMPLETED ON THE MAINTENANCE AGREEMENT REQUIRED TO BE RECORDED FOR THE FINAL PLAN.

PER MUST CONTINUE PROCESSING THE BULK PARCEL SUBDIVISION PLANS ET AL STANDARD PROCESSING DEADLINE DATES. ON THIS SUBDIVISION, AND 4) RESERVATIONS, PARCELS 'M' AND 'N' SHALL BE MAINTAINED AS NON-BUILDABLE R BUILDABLE BULK PARCEL 'T' AND LOT 1; THE APPLICANT/DEVELOPER 5) LIMITS OF THE 100 YEAR FLOOD PLAIN, WETLANDS AND STEEP SLOPES RED 33' SETBACK FROM THOSE PROTECTED ENVIRONMENTAL FEATURES AND 6) CONSERVATION OBLIGATION SHALL BE ADDRESSED WITH THE PROCESSING

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 26. PRESERVATION PARCELS OR BULK PARCELS FOR SINGLE-FAMILY DETACHED DWELLINGS SHALL HAVE A MINIMUM LOT FRONTAGE ON APPROVED STREETS WITHIN A PUBLIC RIGHT-OF-WAY WHICH PROVIDES ACCESS TO THE PROPERTY WITH 20 FEET FOR SINGLE FAMILIES AND NON-PRESERVE LOTS AND PRESERVATION PARCELS WHICH CANNOT BE FURTHER DIVIDED UNDER CURRENT ZONING AND SHALL HAVE SUFFICIENT FRONTAGE COLLECTIVELY TO MEET THE DRIVEWAY EASEMENT REQUIREMENTS IN THE DESIGN MANUAL.

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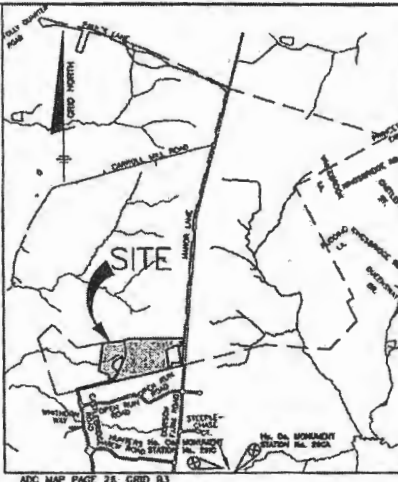
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VICINITY MAP
 SCALE: 1" = 200'

BENCHMARKS NAD 83 HORIZONTAL

NO. CO. #29C 3/4" REBAR W/ CAP E 134353.820' ELEV.=483.83	NO. CO. #29C STAMPED ALUMINUM GSK SET ON 3/4" IRON ROD E 572323.858' E 124411.285' ELEV.=488.79
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COORDINATE CHART (NAD 83) FEET

No.	NORTHING	EASTING	No.	NORTHING	EASTING
103	577,007.0702	1,340,482.8348	118	577,087.6727	1,342,044.2164
104	577,553.5728	1,340,904.1083	117	577,018.4817	1,342,919.9649
105	577,716.1887	1,341,195.4396	116	577,028.4988	1,342,017.7872
106	577,719.2699	1,341,212.5317	119	577,129.5849	1,342,725.3389
107	577,729.4269	1,342,267.1177	120	577,153.8778	1,342,241.8453
108	577,893.8880	1,341,818.2022	121	577,163.8271	1,342,265.8234
109	577,728.4582	1,342,416.0913	122	576,478.8132	1,339,858.0512
110	577,716.1887	1,342,416.0913	123	576,514.8354	1,338,848.0276
111	577,074.2174	1,342,333.2034	124	576,473.3581	1,340,518.2020
112	577,141.1009	1,342,374.0943	125	576,887.2818	1,340,546.7600
113	577,184.8256	1,342,389.8889	126	576,737.7005	1,340,736.8334
114	577,495.1897	1,342,384.1500	127	576,788.0063	1,340,793.2604
115	577,137.2022	1,342,358.1642	128	577,217.8883	1,340,975.1647
116	577,127.0998	1,342,333.4548	129	577,287.9541	1,340,938.2985
117	577,491.5378	1,342,282.4717	130	577,152.7823	1,340,748.8188
118	577,607.7138	1,342,263.6236	131	577,049.8298	1,340,708.1844
119	577,652.9295	1,342,287.4027	132	576,834.9185	1,340,831.0481
120	577,652.9295	1,342,314.0005	133	576,802.3329	1,340,728.6989
121	577,802.2815	1,342,315.7015	134	576,759.6109	1,340,728.1140
122	577,802.2815	1,342,322.1299	135	576,738.2863	1,340,614.1570
123	577,518.1012	1,342,278.0086	136	576,687.2108	1,340,614.0063
124	577,540.5				

C1 9016

SEQUENCE NO. (MDE 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

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED 5 18 09

Depth of Well 2200

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO 95-1734

OWNER: Tregler, Natalie; STREET OR RFD: MABA Lane; TOWN: ELLICOTT CITY; SUBDIVISION: Carroll-Tregler PLO. SECTION; LOT 3

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Red & Brown SOIL, Brown Shale, and Gray Limestone.

GROUTING RECORD section including: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS (20), NO. OF POUNDS (1880), GALLONS OF WATER (120), DEPTH OF GROUT SEAL (0 to 57 ft).

CASING RECORD section including: casing types (ST, CO, PL, OT), MAIN CASING TYPE (ST), Nominal diameter (06), Total depth (60).

OTHER CASING (if used) section with diameter and depth fields.

SCREEN RECORD section including: screen type (ST, BR, HO), insert appropriate code below.

PUMPING TEST section including: HOURS PUMPED (03), PUMPING RATE (8.5), METHOD USED TO MEASURE PUMPING RATE (1906), WATER LEVEL (56 ft before, 60 ft when pumping), TYPE OF PUMP USED (S - submersible).

PUMP INSTALLED section including: DRILLER INSTALLED PUMP (YES), TYPE OF PUMP INSTALLED (S), CAPACITY: GALLONS PER MINUTE (31), PUMP HORSE POWER (37), PUMP COLUMN LENGTH (43), CASING HEIGHT (49).

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: YES (Y), NO (N)

CIRCLE APPROPRIATE LETTER: A (well abandoned and sealed), E (electric log obtained), P (test well converted to production well)

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. M 30 009; DRILLERS SIGNATURE: [Signature]

LIC. NO.: D

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

DEPTH (nearest ft.): 1140, 60, 200

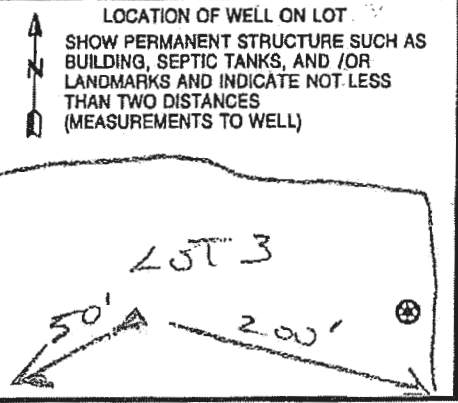
DEPTH table with columns for casing depth (8, 9, 11, 15, 17, 21, 23, 24, 28, 30, 32, 38, 39, 41, 45, 47, 51) and slot size.

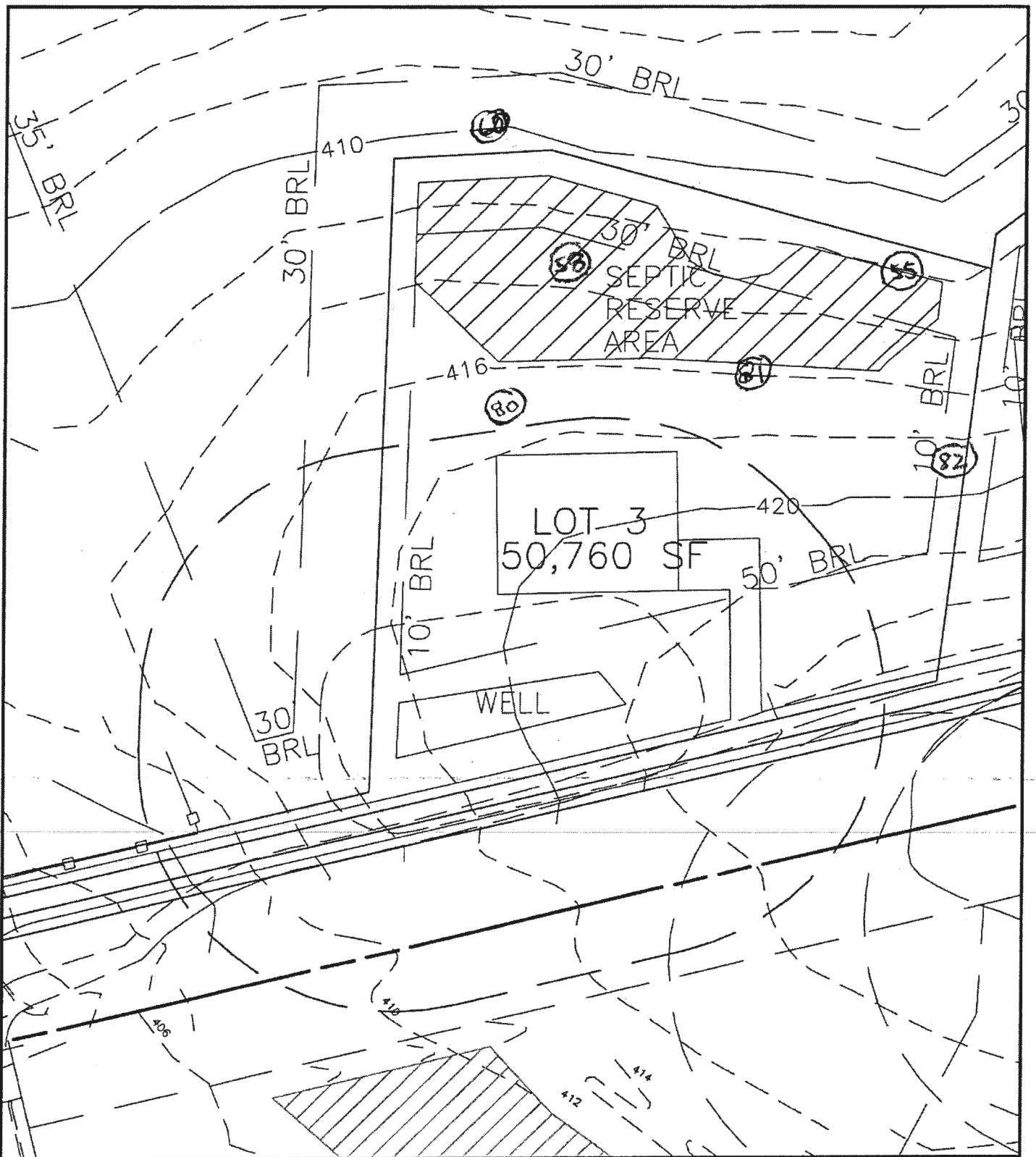
DIAMETER OF SCREEN (NEAREST INCH): 55, 60

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.), W Q

TELESCOPE CASING, LOG INDICATOR, OTHER DATA





BENCHMARK
 ENGINEERS • LAND SURVEYORS • PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE • SUITE 315 • ELLICOTT CITY, MD 21043
 PHONE: 410-465-6105 FAX: 410-465-6644

EXHIBIT
CARROLL-ZIEGLER PROPERTY
LOT 3

THIRD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 50' DATE: 4/28/14

[Handwritten mark]