

OWNER: Lick Creek Water System (Well #3)  
DRILLER: Yearly Drilling Company  
COUNTY: Russell (St. Paul)

VDMR: 2053  
WWCR: 29  
TOTAL DEPTH: 295'

GEOLOGIC LOG

Depth in feet

0-20	No sample
20-30	Siltstone - medium-gray, micaceous, carbonaceous; some light-gray subgraywacke
30-40	" some coal
40-50	" " trace pyrite
50-60	Subgraywacke - light-gray, very-fine-grained, poorly sorted, angular, micaceous, slightly carbonaceous; minor medium-gray siltstone
60-70	" little siltstone
70-80	" "
80-90	" some coal
90-100	"
100-110	Siltstone - medium-gray, micaceous, carbonaceous; minor light-gray subgraywacke
110-120	"
120-130	"
130-140	"
140-150	" some coal
150-160	Subgraywacke - light-gray, very fine-grained, poorly sorted, angular, micaceous, slightly carbonaceous; minor siltstone and coal
160-170	"
170-180	"
180-190	Siltstone - medium-gray, micaceous, carbonaceous; some subgraywacke and coal

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#2053

190-200	Siltstone - medium-gray, micaceous, carbonaceous; some subgraywacke and coal; little coal
200-210	"
210-220	"
220-230	"
230-240	"
240-250	"
250-260	Siltstone - medium-gray, micaceous, carbonaceous; some subgraywacke and coal
260-270	" little coal
270-280	Subgraywacke - light-gray, fine-grained, poorly sorted, angular, micaceous, slightly carbonaceous; minor siltstone and coal
280-290	"

GEOLOGIC SUMMARY

<u>Rock Unit</u>	<u>Age</u>
Lee Formation	Pennsylvanian

Virginia Division of Mineral Resources  
W. W. Winters, Geologist  
December 15, 1967

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

3667  
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Lick Creek Water System Mailing Address: Saint Paul, Virginia

TENANT: Well #3 Mailing Address: \_\_\_\_\_

DRILLER: Yeary Drilling Co. Mailing Address: W. Norton Rd. - Coeburn, Va.

WELL LOCATION: County Russell Approx. 225 <sup>feet</sup>~~xxx~~ north (direction) of  
Rockwell Mfg. Co. and 800 <sup>feet</sup>~~xxx~~ north (direction) of Dante Highway

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: September 6, 1967-2 p.m. DATE COMPLETED: October 21, 1967

TYPE OF DRILL RIG USED: Cable Tool TOTAL DEPTH 295 feet

WATER LEVEL: Stands 28'9" feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Pumping Submersible pump  
Drawdown 20-30 feet  
Rate 15 gal. per min.  
Duration 48 hrs., 0 min.

HOLE SIZE: 10 inches from 0 to 50 feet  
8 inches from 50 to 56 feet  
5 5/8 inches from 56 to 295 feet

WATER ZONES: from 0 to 20 feet  
from 20 to 155 feet  
from 174 to 271 feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color Clear Taste Good  
Odor None Temp. \_\_\_\_\_ °F

CASE SIZE: 5 5/8 inches from 0 to 57 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town X School \_\_\_\_\_  
Industry X Other \_\_\_\_\_

GROUTING: Method Cement and water mixed and poured outside casing using 40 bags cement  
Material \_\_\_\_\_ Depth 57 feet

WATER ANALYSIS AVAILABLE: Yes X No \_\_\_\_\_

PUMP: Type Submersible  
Capacity 22 gal. per min  
Depth of intake 270 feet

DRILL CUTTINGS SAVED: Yes X No \_\_\_\_\_

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LOG

FURNISHED BY: Yeary Drilling Co.

DATE: October 21, 1967

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	20	Yellow clay and soapstone very soft	Hole caving a little at 20' depth
20	48	Gray black slate or shale medium hard	Picked up 4-5 gal. water at 20'
48	107	Gray sandstone medium hard to very hard	Struck large boulder at 34' hole trying to lead off
107	131	Gray black shale medium hard	Ran 5 5/8" casing and drilled 10' with 5 5/8" bit
131	139	Gray sandstone very hard and abrasive	Pulled casing and resumed drilling 10" hole to depth of 50'
139	145	Dark gray shale medium hard	Grouted casing Sept. 18 and was down a week for repairs. Well making enough water to drill with at 155'. More water brought in at 174' about 5 gal. per minute.
145	174	Gray sandstone very hard	Large amount of water coming in well at 271 feet. Total depth of well 295'. Ran 48 Hr. pump test on well Oct. 19 through Oct. 21. Pumping 21 gal. per minute for 10 hrs. and 15 gal. per minute balance of test.
174	265	Black sandy shale medium hard	Well held up during pump test with very little loss of static water level.
265	291	Gray black sandstone medium hard to hard	
291	295	Black shale very soft	

(Use additional forms if necessary)

INTERVAL SHEET

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VDMR Well No: 2053

Date rec'd: 11/28/67

Sample Interval: from 20' to: 290'

PROP: Lick Creek Water System #3

Number of samples: 27

COMP: Yeary Drilling Company

Total Depth: 295'

COUNTY: Russell (St. Paul)

Oil or Gas: Water~~X~~ Exploratory:

From-To	From-To	From-To	From-To
-	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-
250 - 260	-	-	-
260 - 270	-	-	-
270 - 280	-	-	-
280 - 290	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.