

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Augusta County Service Authority Mailing Address: County Office Building, Staunton Virginia 24401

TENANT: Lyndhurst test well Mailing Address: Lyndhurst

DRILLER: William F. Caldwell, Jr. Mailing Address: Route #1, Fishersville, VA22939

WELL LOCATION: County Augusta Approx. 1 ~~xxxxxx~~ ^{feet} miles south (direction) of Lyndhurst and 400 ~~xxxx~~ ^{feet} ~~miles~~ east (direction) of Highway 664

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

DATE STARTED: 9/9/69 DATE COMPLETED: 11/14/69

TYPE OF DRILL RIG USED: Rotary and cable TOTAL DEPTH 265 feet

WATER LEVEL: Stands 70 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Air

Drawdown 120 feet

* Rate 350 gal. per min.

Duration 3 hrs., 0 min.

WATER ZONES: from 90 to 100 feet

from 145 to 150 feet
from 178 to 185 feet

from 245 to 265 feet

WATER: Color clear Taste none

Odor none Temp. 54 °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Co. Service Auth.

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: Yes 21 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: * see driller's log

HOLE SIZE: 8 3/4 inches from 0 to 202 feet

6 inches from 202 to 265 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from 0 to 202 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method none

Material _____ Depth _____ feet

PUMP: Type none

Capacity _____ gal. per min

Depth of intake _____ feet

W-2707
C-396

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LOG

FURNISHED BY: Caldwell Well Drilling

DATE: November 28, 1969

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	30	Clay, sand and sand boulders	
30	85	Yellow clay	
85	100	Shale and gravel	100 gals. per minute cased off at appr. 90 feet.
100	130	Gravel	
130	150	Limestone	250 gals. per minute cased off at 145 feet
150	180	Limestone	
180	200	Clay, shale and gravel	200 gals. per minute cased off at 182 feet
200	265	Brown shale	* 350 gals. per minute at 245 feet
			* The last stream is the only one not cased off.
			This was an exploratory well which will have to be reamed, cased and screened to get the maximum potential flow.

(Use additional forms if necessary)

OWNER: Augusta Co. Serv. Auth.
(Lyndhurst Test Well)

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VDMR # 2707
WWCR # 396

200-210 Dolomite – light tan, finely crystalline; with fragments of vuggy calcite and tan shale

210-220 "

220-230 "

230-240 Siltstone – light tan; minor amounts of vuggy calcite, finely-crystalline dolomite and dark-gray, medium-crystalline limestone

240-250 Shale and limestone – tan to red; slickensided shale, and dark- to medium-crystalline limestone

ROME FORMATION ? (250-265')

250-265 Limestone, sandstone, and dolomite – dark-gray, coarsely-crystalline limestone; light-tan, fine-grained sandstone; light-tan, finely-crystalline dolomite; considerable amount of tan, vuggy calcite and a minor amount of red-tan shale

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-85	Overburden	—
85-250	Elbrook Formation	Middle Cambrian
250-265	Rome Formation (?)	Early Cambrian

Virginia Division of Mineral Resources
E. B. Nuckols III, Geologist
May 17, 1971