

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3673
C-427

MAILING ADDRESS:
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DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: County School Board of Augusta Co., Va. Mailing Address: Fishersville, Va.

TENANT: Madrid Elem. School Mailing Address: _____

DRILLER: Gilliam & Mundy Mailing Address: Box 162; Buchanan, Va.

WELL LOCATION: County Augusta Approx. 2 miles Northwest (direction) of
Dooms and 400 feet North (direction) of Int. of 640 & 865

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

DATE STARTED: July, 1972 DATE COMPLETED: October 15, 1972

TYPE OF DRILL RIG USED: Air Rotary TOTAL DEPTH 550 feet

WATER LEVEL: Stands 80 feet below surface OR
has NATURAL flow of _____ gallons per minute

YIELD TEST: Method test pump
Drawdown 171 feet
Rate 30 gal. per min.
Duration 48 hrs.; 0 min.

HOLE SIZE: 10 inches from 1 to 100 feet
6 inches from 100 to 550 feet

SCREEN SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER ZONES: from 76 to 78 feet
6 zones from 317 to 520 feet
(See log on back)
from _____ to _____ feet

CASE SIZE: 6 inches from +1 to 100 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

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

GROUTING: Method pumped
Material Cement water Depth 100 feet

WATER ANALYSIS AVAILABLE: Yes X No _____

Capacity 5HP gal per min

DRILL CUTTINGS SAVED: (59) Yes X No _____

Depth of intake 294 feet

(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: _____

FURNISHED BY: _____

DATE: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	3'	Clay overburden	
3'	8'	Solid blue limestone	Small dry pocket
8'	8' 6"	Crevas	Small dry pocket
8' 6"	68'	Solid blue limestone	
68'	70'	Crevas	Red mud-sloppy-not thick
70'	76'	Blue-grey limestone	
76'	78'	Crevas	Yellow water-soapstone Lot of water
118'	119'	Soft grey slate	
119'	129'	Solid harder limestone	
129'	129' 8"	Soft reddish shale (no crevas)	
129' 8"	160'	Grey limestone	
160'	160' 6"	Grey slate (no crevas)	
160' 6"	220'	Solid blue limestone	
220'	221'	Soft limestone	
221'	317'	Solid blue-black limestone	
317'	317' 8"	Soft shale	Increase in water
317' 8"	395'	Solid	
395'	395' 6"	Soft limestone	Increase in water
431'	432'	Soft	Increase in water
466'	467'	Soft shale	
485'	485' 6"	Soft limestone	Increase in water
485' 6"	510'	Blue-grey limestone	
510'	510' 8"	Soft	Possible increase in water
510' 8"	517'	Grey limestone	
518'	520'	Soft limestone	Increase in water
520'	550'	Solid blue limestone	

OWNER: Augusta Co. School Board
DRILLER: Gilliam and Munday
COUNTY: Augusta

VDMR # 3673
WWCR # 221
TOTAL DEPTH : 550'

GEOLOGIC LOG

- 2.5-3 Dolomite - grey, fine-grained, crystalline; a few buff chips of weathered claystone or slaty dolomite; minor quartz sand.
- 5-10 Dolomite - grey, fine-grained, crystalline; some light-grey to buff dolomite; minor buff-to-grey slate or phyllite chips with muscovite plates along cleavage.
- 15-20 " "
- 25-30 Dolomite - light-grey, fine-grained, crystalline minor pyrite cubes, very few slaty chips.
- 35-40 Dolomite - light-grey to grey, fine-grained, crystalline.
- 45-50 Dolomite - light grey to grey, fine-grained crystalline, minor amounts of light tan to white limestone chips.
- 55-60 Limestone - dark-grey, fine-grained, with dark-grey, fine-grained crystalline dolomite. Minor dark, slaty dolomite chips.
- 68-70 Silty-clay - (cave mud?), yellow, friable, minor chips of dark-grey dolomite.
- 76-78 Limestone - dark-grey, argilloceous, fine-grained, tan and orange weathered phyllite or slaty dolomite; dark-grey, fine-grained, crystalline dolomite.
- 85-90 Dolomite - grey to dark-grey, fine-grained, crystalline dark grey argillaceous limestone, tan calcareous argillite, dark grey calcareous phyllite.
- 95-100 " minor white vein calcite.
- 105-110 Phyllite - dark, silvery-grey; fibrous calcite produces lineation on schistosity; with dark-grey, fine-grained crystalline dolomite, white calcite (veins) dark-grey calcareous argillite.
- 125-130 Limestone - light-grey, fine-to-medium-grained crystalline; with dark grey crystalline dolomite and dark grey lustrous phyllite.
- 129-130 Limestone - light-grey and dark-grey, white and yellow-stained vein calcite, pink and yellow weathered argillite and phyllite.
- 135-140 Limestone - grey, fine-grained, crystalline; not obviously schistose but breaks into flat chips.
- 145-150 Limestone - lighter in color than above, some dark-grey crystalline dolomite.

- 155-160 Phyllite - dark-grey with lustrous cleavage surfaces; white light-grey and dark-grey crystalline limestone, some with fine, rounded quartz sand grains.
- 177-178 Argillite - finely laminated, dark-grey, weathered yellowish orange; with weathered, yellow-orange phyllite, dark-grey, shiny phyllite, grey and dark-grey limestone and dolomite; some fine calcareous quartz sandstone.
- 180-181 Dolomite - dark-grey, fine-grained, crystalline; very minor yellow, weathered, phyllitic chips.
- 185-190 Dolomite - dark-grey as above; white dolomite veins in some larger chips.
- 195-200 " " some dark-grey limestone.
- 205-210 Dolomite - light-grey fine-to-medium-grained, crystalline.
- 215-220 " "
- 225-230 Dolomite - very dark-grey to black, fine-grained crystalline; some white vein dolomite.
- 245-250 " "
- 255-260 Dolomite - grey, medium-grained, speckled or salt-and-pepper texture; crystalline white dolomite a minor constituent.
- 265-270 " slightly darker.
- 275-280 Dolomite - very dark-grey to black, fine-grained, crystalline.
- 285-290 " "
- 295-300 " "
- 309-310 " lighter grey.
- 310-317 Dolomite - dark-grey; weathered, tan phyllite.
- 317-320 Dolomite - grey, fine-to-medium-grained, crystalline.
- 325-330 Dolomite - light-grey to grey, fine-grained white dolomite veins in some larger chips.
- 335-340 " "
- 345-350 Dolomite - dark-grey, fine-grained, crystalline; some white dolomite veins in larger chips.
- 355-360 Dolomite - grey, fine-to-medium-grained; crystalline, white dolomite veins in larger chips.

365-370	"	"
375-380	Dolomite - dark-grey, fine-grained, crystalline.	
385-390	"	"
395-400	"	grey to dark grey
405-410	"	with pyrite.
415-420	Dolomite - grey to dark-grey, fine-grained, some laminated or platy chips with sericite growth on flat bedding (?) surfaces.	
425-430	Dolomite - grey to dark-grey, fine-grained, crystalline, with minor amounts of pyrite.	
435-440	Dolomite - light-grey to grey, fine-to-medium-grained, crystalline.	
445-450	Dolomite - grey, fine-to-medium-grained, crystalline.	
455-460	Dolomite - grey, fine-to-medium-grained; a few chips of dark-grey slaty dolomite in this interval.	
465-470	"	with fewer slaty chips.
475-480	"	"
485-490	"	some weathered chips.
495-500	Dolomite - dark-grey, slaty, muscovite plates on cleavage surfaces; pyrite films and lamelli.	
500-510	Dolomite - light-grey to grey, fine-to-medium-grained, crystalline; minor slaty chips.	
515-520	Dolomite - light-grey to dark-grey; some yellow-weathered chips.	
525-530	Dolomite - light-grey to grey, fine-to-medium-grained; with some slaty chips that show muscovite on flat cleavage surfaces.	
535-540	Dolomite - light-grey to grey, medium-to-fine-grained, crystalline; a few slaty chips.	

545-550

Dolomite - grey to dark-grey, fine-grained crystalline;
a few tan-weathered chips.

GEOLOGIC SUMMARY

ROCK UNIT

AGE

2.5-550 Elbrook Formation (upper part)

Cambrian

Virginia Division of Mineral Resources
William S. Henika - Geologist
November 26, 1976