

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

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

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Town of Phenix Mailing Address: Phenix, Virginia

TENANT: F. Y. Foster, Mayor Mailing Address: Phenix, Virginia

DRILLER: A. T. (Red) Conner Mailing Address: Rt. #3, Box 31, Nathalie, VA

WELL LOCATION: County Charlotte Approx. 8 ^{feet}/_{miles} east (direction) of 24577
Brookneal and 15 ^{feet}/_{miles} west (direction) of Keysville, VA

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

DATE STARTED: _____ DATE COMPLETED: September 1968

TYPE OF DRILL RIG USED: cable TOTAL DEPTH 405 feet

WATER LEVEL: Stands 170 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method bailed
Drawdown 5 feet
Rate 30 gal. per min.
Duration 2 hrs., 0 min.

HOLE SIZE: 10 inches from 0 to 100 feet
6 inches from 100 to 405 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 140' to 1 GPM feet
from 225' to 2 GPM feet
from 390' to 30 + GPM 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: 6 inches from 0 to 114 1/2 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No X
DRILL CUTTINGS SAVED: Yes X No _____

PUMP: Type 5 HP submersible
Capacity 28 gal. per min
Depth of intake 390 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: SWL was 40' until crack @ 390' was penetrated
Platform 7' x 7' with drain
No pump house or grouting at this time.
Bedrock @ 80'

INTERVAL SHEET

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WWCR: 191

VDMR Well No: 2339

Date rec'd: 12/12/68

Sample Interval: from 0 to: 405'

PROP: Town of Phenix

Number of samples: 41

COMP: A. T. Conner

Total Depth: 405'

COUNTY: Charlotte (Phenix)

Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
0 - 10	300 - 310	-	-
10 - 20	310 - 320	-	-
20 - 30	320 - 330	-	-
30 - 40	330 - 340	-	-
40 - 50	340 - 350	-	-
50 - 60	350 - 360	-	-
60 - 70	360 - 370	-	-
70 - 80	370 - 380	-	-
80 - 90	380 - 390	-	-
90 - 100	390 - 400	-	-
100 - 110	400 - 405	-	-
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	-	-	-
290 - 300	-	-	-

All intervals have both washed and unwashed samples

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DRILLER: A. T. (Red) Conner
COUNTY: Charlotte (Phenix)

VDMR: 2339
WWCR: 191
TOTAL DEPTH: 405'

GEOLOGIC LOG

Depth
in feet

0-10	Saprolite — tan, weathered and slightly iron-oxide stained; micaceous; quartz, mica, minor amounts of clay, and traces of garnet and amphiboles
10-20	"
20-30	"
30-40	"
40-50	"
50-60	" less micaceous; slight increase in amount of amphiboles
60-70	" light tan to tannish-white; with minor amount of mica
70-80	Hornblende granite — gray; medium- to fine-grained, crystalline; quartz, hornblende, feldspar, minor amounts of biotite and muscovite, traces of garnet
80-90	" light gray; less hornblende and mica
90-100	"
100-110	"
110-120	Biotite granite — gray, fine- to very fine-grained, crystalline; quartz, feldspar, biotite, and traces of amphiboles, garnet, chlorite, apatite and pink feldspar
120-130	"
130-140	"

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140-150	Biotite-hornblende granite — gray, medium- to very fine-grained, crystalline; feldspar, quartz, biotite, hornblende, with traces of garnet, and apatite
150-160	Granite — light gray, medium- to fine-grained, crystalline; feldspar and quartz, with traces of biotite, muscovite, hornblende and apatite
160-170	Biotite granite — gray, medium- to fine-grained, crystalline; feldspar, quartz and biotite, with traces of muscovite, hornblende, apatite, and pink feldspar
170-180	"
180-190	Biotite-hornblende granite — dark gray, medium grained, crystalline; feldspar, quartz, biotite, hornblende, apatite, and trace of garnet
190-200	Biotite-muscovite granite — light gray, medium- to fine-grained, crystalline; feldspar and quartz, with minor amounts of biotite and muscovite; trace of hornblende
200-210	"
210-220	"
220-230	"
230-240	"
240-250	"
250-260	"
260-270	"
270-280	"
280-290	"
290-300	"

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#2339

300-310	Biotite-muscovite granite — light gray, medium- to fine-grained, crystalline; feldspar and quartz, with minor amounts of biotite and muscovite; trace of hornblende
310-320	"
320-330	"
330-340	"
340-350	"
350-360	"
360-370	"
370-380	"
380-390	"
390-400	"
400-405	"

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-70'	Saprolite	-
70-405'	Mixed mica and hornblende granites	Late Paleozoic (?)

Note: Samples from 70-190' were so pulverized by drill bit that the rock texture could not be positively identified.

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
December 16, 1968