

INTERVAL SHEET WWCR 75

Page 1 of 1

VDMR Well No: 2171

Date rec'd: 4/29/68

Sample Interval: from 0 to: 500'

PROP: Shell Oil Company

Number of samples: 50

COMP: Frank W. Martin Drilling Co.

Total Depth: 500'

COUNTY: Rockbridge (Fancy Hill)

Oil or Gas: Water: X Exploratory:

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 - 410	-	-
110- 120	410 - 420	-	-
120- 130	420 - 430	-	-
130- 140	430 - 440	-	-
140- 150	440 - 450	-	-
150- 160	450 - 460	-	-
160- 170	460 - 470	-	-
170- 180	470 - 480	-	-
180- 190	480 - 490	-	-
190- 200	490 - 500	-	-
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.

OWNER: Shell Oil Company  
DRILLER: Frank W. Martin Drilling Co., Inc.  
COUNTY: Rockbridge (Fancy Hill)

VDMR: 2171  
WWCR: 75  
TOTAL DEPTH: 500'

GEOLOGIC LOG

<u>Depth in feet</u>	
0-10	Sand and clay — brown
10-20	"
20-30	"
30-40	"
40-50	Dolomite — dark-gray, medium-grained, microcrystalline, argillaceous; minor amount of light-gray dolomite
50-60	"
60-70	" with trace of pyrite
60-70	"
70-80	"
80-90	"
90-100	"
100-110	" with vein dolomite
110-120	"
120-130	"
130-140	" with minor amount of yellowish chert
140-150	"
150-160	" with minor amount of yellowish chert and trace of pyrite
160-170	Dolomite — dark-gray, medium-grained, microcrystalline, argillaceous, calcareous; minor amount of light-gray dolomite
170-180	" with trace of pyrite
180-190	" "

OWNER: Shell Oil Company

#2171

190-200	Dolomite -- dark-gray, medium-grained, microcrystalline, argillaceous, calcareous; minor amount of light-gray dolomite and fragments of white and gray chert
200-210	" and limonite psuedomorphs after pyrite
210-220	" with minor amount of yellowish chert
220-230	" with trace of pyrite
230-240	"
240-250	"
250-260	"
260-270	" with a few calcite crystals
270-280	Dolomite -- medium-gray, fine- to medium-grained, microcrystalline, calcareous, argillaceous; some light-gray dolomite
280-290	"
290-300	"
300-310	"
310-320	"
320-330	"
330-340	"
340-350	"
350-360	"
360-370	"
370-380	"
380-390	Limestone -- light-gray, fine-grained, microcrystalline
390-400	"
400-410	"

OWNER: Shell Oil Company

#2171

- 410-420 Limestone — light-gray, fine-grained, microcrystalline
- 420-430 Dolomite — medium-gray, fine- to medium-grained,  
microcrystalline, argillaceous; some light-gray  
dolomite
- 430-440 Limestone — light-gray, fine-grained, microcrystalline
- 440-450 "
- 450-460 Dolomite — medium-gray, fine- to medium-grained,  
microcrystalline, argillaceous; some light-gray  
dolomite
- 460-470 "
- 470-480 "
- 480-490 "
- 490-500 Limestone — light- to dark-gray, fine-grained, microcrystalline

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-40'	Overburden	
40-500'	Conococheague Formation	Late Cambrian

Virginia Division of Mineral Resources  
W. W. Winters, Geologist  
May 1, 1968

VDMR - 2171  
WWCR - 75 95

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:  
Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES  
JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Shell Oil Company Mailing Address: R F D 5 - Box 424-C Roanoke Virginia 24014

TENANT: Natural Bridge Shell station Mailing Address: Natural Bridge, Virginia

DRILLER: Frank W Martin Drilling Co., Inc. Mailing Address: 5163 Starkey Rd. S. W. Roanoke, Virginia 24014

WELL LOCATION: County Rockbridge Approx. 2000 feet miles south (direction) of US. 11 and I-81  
Natural Bridge Intersection and 5 feet miles north (direction) of Natural Bridge

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

DATE STARTED: January 5, 1968 DATE COMPLETED: January 30, 1968

TYPE OF DRILL RIG USED: Air Rotary TOTAL DEPTH 500 feet

WATER LEVEL: Stands 70 feet below surface OR  
has NATURAL flow of 8 gallons per minute.

YIELD TEST: Method Air Test  
Drawdown \_\_\_\_\_ feet  
Rate 8 gal. per min.  
Duration \_\_\_\_\_ hrs., \_\_\_\_\_ min.

HOLE SIZE: 10 inches from 0 to 100 feet  
6 inches from 100 to 500 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 410 to \_\_\_\_\_ feet  
from 450 to 470 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

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

WATER: Color Clear Taste Good  
Odor \_\_\_\_\_ Temp. 56 °F

CASE SIZE: 5 inches from 0 to 107 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

GROUTING: Method Poured  
Material Cement Depth 100 feet

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

PUMP: Type Submersible  
Capacity 8 gal. per min

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

Depth of intake 420 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: 50 samples

LOG

FURNISHED BY: Frank W Martin Drilling Co., Inc.

DATE: February 9, 1968

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED ( gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	460	Limestone	Small amount of water at 410'
460	500	Limestone	450' to 470' 6 GPM