

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

P. 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Humble Oil Company Mailing Address: Williamson Rd., Roanoke, Va.

TENANT: Humble Oil Company Mailing Address: Natural Bridge, Va.

DRILLER: J. T. Kesler Drilling Company Mailing Address: Rt. 4, Box 403, Roanoke, Va.

WELL LOCATION: County Rockbridge Approx. 1/4 miles east (direction) of Interstate 81 at Natural Bridge Exit and 1 mile southwest (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: July 1968 DATE COMPLETED: July 1968

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 340 feet

WATER LEVEL: Stands 45 feet below surface OR

has NATURAL flow of gallons per minute.

YIELD TEST: Method air

Drawdown feet

Rate 20 gal. per min.

Duration 12 hrs., 0 min.

HOLE SIZE: 10 inches from 0 to 50 feet

6 inches from 50 to 340 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 50 feet

inches from to feet

inches from to feet

WATER ZONES: from 195 to feet

from 310 to 315 feet

from to feet

WATER: Color Taste

Odor Temp. °F

WELL TO SUPPLY: (check one) Home

Farm Town School

Industry Other service station

GROUTING: Method Pressure

Material cement Depth 50 feet

PUMP: Type Fairbanks Morse

Capacity 15 gal. per min

Depth of intake 300 feet

WATER ANALYSIS AVAILABLE: Yes No X

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:

FURNISHED BY: J. T. Kesler, Jr.

DATE: 11/5/68

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	31	Overburden	
31	50	Limestone	
50	195	Limestone	
195	195	Water	
195	310	Limestone	
310	315	Water zone	
315	340	Limestone	

INTERVAL SHEET

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WWCR: 79  
VDMR Well No: 2332

Date rec'd: 12/2/68

Sample Interval: from 10 to: 330'

PROP: Humble Oil Company

Number of samples: 33

COMP: J. T. Kesler Drilling Company

Total Depth: 340'

COUNTY: Rockbridge (Natural Bridge)

Oil or Gas: Water:  Exploratory:

From-To	From-To	From-To	From-To
10	310	-	-
20	320	-	-
30	330	-	-
40	-	-	-
50	-	-	-
60	-	-	-
70	-	-	-
80	-	-	-
90	-	-	-
100	-	-	-
110	-	-	-
120	-	-	-
130	-	-	-
140	-	-	-
150	-	-	-
160	-	-	-
170	-	-	-
180	-	-	-
190	-	-	-
200	-	-	-
210	-	-	-
220	-	-	-
230	-	-	-
240	-	-	-
250	-	-	-
260	-	-	-
270	-	-	-
280	-	-	-
290	-	-	-
300	-	-	-

All intervals have both washed and unwashed samples.

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VDMR: 2332  
WWCR: 79  
TOTAL DEPTH: 340'

GEOLOGIC LOG

Depth  
in feet

10	Sand — fine to medium grained, well-rounded; minor amounts of weathered sandstone, oölitic chert, and light-gray dolomite
20	" increase in amount of light-gray dolomite
30	Dolomite — medium-gray, fine to medium grained, arenaceous, silty
40	" with minor amounts of vein dolomite, dark-gray dolomite, and medium-gray chert
50	" with much of the dolomite weathered to sand and silt; minor amount of dark-gray dolomite
60	Dolomite — medium-gray, fine to medium grained, arenaceous, silty
70	" with trace of medium-gray chert
80	" "
90	"
100	"
110	Dolomite — dark-gray, fine to medium grained, silty; traces of vein dolomite and brecciated rock fragments
120	Dolomite — medium-gray, fine to medium grained, silty
130	"
140	Dolomite — dark-gray, fine to medium grained, silty; traces of vein dolomite and gray chert

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150	Dolomite — dark-gray, fine to medium grained, silty; traces of vein dolomite and gray chert
160	"
170	"
180	"
190	"
200	"
210	Dolomite — dark-gray, fine to medium grained; trace vein dolomite
220	"
230	"
240	"
250	"
260	Dolomite — dark-gray, fine grained, dense; argillaceous
270	"
280	" with minor amount of medium-grained dolomite; traces of brecciated fragments and vein dolomite
290	"
300	Dolomite — medium-gray, medium grained, dense; traces of vein dolomite and chert
310	Dolomite — dark-gray, fine grained, arenaceous; trace of vein dolomite
320	Dolomite — dark-gray, fine to medium grained; trace of vein dolomite
330	"

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340                      No sample

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-20'	Soil and weathered rock	—
30-330'	Conococheague Formation	Cambrian
330-340'	No sample	—

Virginia Division of Mineral Resources  
W. W. Winters, Geologist  
December 3, 1968