

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: U. S. Forest Service

Mailing Address: Carlton Terrace Bldg.,
Roanoke, Virginia

TENANT: Brushy Mt. Area, Jeff. Nat'l. Forest

Mailing Address: Marion, Va.

DRILLER: Frank W. Martin Drilling Co., Inc.

Mailing Address: 5163 Starkey Rd., SW
Roanoke, Virginia 24014

WELL LOCATION: County Smyth

Approx. 6 ~~feet~~ miles east (direction) of

Marion

and 1/2 ~~feet~~ miles south (direction) of St. Route 16

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

DATE STARTED: 7/26/69

DATE COMPLETED: 9/20/69

TYPE OF DRILL RIG USED: Davey M8A air rotary TOTAL DEPTH 300 feet

WATER LEVEL: Stands _____ feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pump

Drawdown _____ feet

Rate 8 gal. per min.

Duration 26 hrs., 0 min.

HOLE SIZE: 10 inches from 0 to 143 feet

6 inches from 143 to 300 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER ZONES: from _____ to _____ feet

from _____ to _____ feet

from _____ to _____ feet

CASE SIZE: 10 inches from 0 to 143 feet

6 inches from 0 to 174 feet

_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

GROUTING: Method Pumped

Material cement Depth 143 feet

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Park _____

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No

DRILL CUTTINGS SAVED: Yes 29 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: _____

LOG

FURNISHED BY: Frank W. Martin Drilling Co., Inc. DATE: October 30, 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	170	Dirt and clay	
170	300	Rock	
		DATE STARTED: _____ DATE COMPLETED: _____ TYPE OF DRILL RIG USED: _____ WATER LEVEL _____ YIELD TEST Method _____ Rate _____ Duration _____ WATER ZONES: from _____ to _____ from _____ to _____ CASE SIZE 10 inches from _____ to _____ 6 inches from _____ to _____ GROUTING: Method _____ Material _____ PUMP: _____ Capacity _____ Depth of intake _____ DRILL CUTTINGS SAVED _____ OFFICE EXPRESS COLLECT SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST THESE SAMPLES MAY BE SHIPPED TO THIS _____ MARKS: _____	

(Use additional forms if necessary)

VIRGINIA DIVISION OF MINERAL RESOURCES
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

C-62

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Well Repository No: 2715

Date rec'd: 12/18/69

Sample Interval: from 0 to: 300'

PROPERTY: U. S. Forest Service (Brushy Mt.)

Number of samples: 29

COMPANY: Frank Martin Drilling Co., Inc.

Total Depth: 300'

COUNTY: Smyth (Attoway)

Oil or Gas: Water: X Exploratory:

From - To	From - To	From - To	From - To
0 - 10	250 - 260	-	-
10 - 20	-	-	-
20 - 30	270 - 280	-	-
30 - 40	280 - 290	-	-
40 - 50	290 - 300	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
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	-	-	-

All intervals have both washed and unwashed samples.



OWNER: U. S. Forest Service (Brushy Mt. Area)
DRILLER: Frank Martin Drilling Co.
COUNTY: Smyth (Attoway)

W: 2715
C: 62
TOTAL DEPTH: 300'

GEOLOGIC LOG

Depth
in feet

0-10	Quartz sandstone -- light yellow to orange, fine to coarse grained, well-rounded to subangular friable sandstone; traces of limonite and manganese; iron-oxide stain on all sand grains
10-20	"
20-30	"
30-40	Sandstone -- light tan to brown, subangular to very well rounded, well-sorted quartz sand with up to 10 percent glauconite in some sandstone fragments; very light-tan, arenaceous clay, partly iron-oxide stained; limonite and hematite cement in both sandstones and clays; trace of bladed glauconite or chlorite
40-50	"
50-60	Sandstone -- light yellow to orange, fine to coarse grained, well-rounded to subangular friable sandstone; traces of limonite and manganese; iron-oxide stain on all sand grains
60-70	Sandstone -- light tan to brown, subangular to very well rounded, well-sorted quartz sand with up to 10 percent glauconite in some sandstone fragments; very light-tan, arenaceous clay, partly iron-oxide stained; limonite and hematite cement in both sandstones and clays; trace of bladed glauconite or chlorite
70-80	Sandstone -- light yellow to orange, fine to coarse grained, well-rounded to subangular friable sandstone; traces of limonite and manganese; iron-oxide stain on all sand grains
80-90	"

90-100	Sandstone – light tan to brown, subangular to very well rounded, well-sorted quartz sand with up to 10 percent glauconite in some sandstone fragments; very light-tan, arenaceous clay, partly iron-oxide stained; limonite and hematite cement in both sandstones and clays; trace of bladed glauconite or chlorite
100-110	"
110-120	"
120-130	"
130-140	"
140-150	"
150-160	"
160-170	"
170-180	"
180-190	"
190-200	"
200-210	Sandstone – light yellow to orange, fine to coarse grained, well-rounded to subangular friable sandstone; traces of limonite and manganese; iron-oxide stain on all sand grains
210-220	Sandstone – light tan to brown, subangular to very well rounded, well-sorted quartz sand with up to 10 percent glauconite in some sandstone fragments; very light-tan, arenaceous clay, partly iron-oxide stained; limonite and hematite cement in both sandstones and clays; trace of bladed glauconite or chlorite
220-230	"
230-240	"
240-250	"

250-260	Sandstone – light tan to brown, subangular to very well rounded, well-sorted quartz sand with up to 10 percent glauconite in some sandstone fragments; very light-tan, arenaceous clay, partly iron-oxide stained; limonite and hematite cement in both sandstones and clays; trace of bladed glauconite or chlorite
260-270	No sample
270-280	Sandstone – light tan to brown, subangular to very well rounded, well-sorted quartz sand with up to 10 percent glauconite in some sandstone fragments; very light-tan, arenaceous clay, partly iron-oxide stained; limonite and hematite cement in both sandstones and clays; trace of bladed glauconite or chlorite
280-290	"
290-300	"

GEOLOGIC SUMMARY

ROCK UNIT

AGE

Erwin Formation (?)

Cambrian

NOTE: As two markedly different but distinct rock-sample types reoccur through out the sample intervals with no indication of intercontamination, it is obvious the samples were mixed during collection and are therefore of no stratigraphic value.

Virginia Division of Mineral Resources
Thomas M. Gathright, Geologist
January 6, 1970