#### COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

# DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

Box 3667

McCormick Road

rlottesville, VA 22903 WATER WELL COMPLETION REPORT Charlottesville, Virginia OWNER: U.S. Forest Service \_\_\_\_\_ Mailing Address: P.O. Box 2847 - Roanoke, Va. TENANT: Cave Springs Area, Jeff. Nat'l. Forest Mailing Address: DRILLER: Frank W. Martin Drilling Co., Inc. Mailing Address: 5163 Starkey Rd., SW, Roanoke, Va. Approx. 1 1/2 miles northwest (direction) of Lee WELL LOCATION: County \_\_\_\_\_ \_\_\_\_ and\_\_\_\_100 Dryden west (direction) of St. Rd. 621 (GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.) DATE STARTED: February 18, 1969 \_\_\_\_\_DATE COMPLETED: February 21, 1969 TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 160 feet WATER LEVEL: Stands 33.81 feet below surface OR has NATURAL flow of\_\_\_\_\_gallons per minute. HOLE SIZE: 10 inches from 0 to 53 1/2e et YIELD TEST: Method pump \_\_\_6\_\_inches from <u>53 1/2</u>to <u>160</u>feet Drawdown \_\_\_\_\_ feet Rate 20 gal. per min. \_\_\_\_inches from \_\_\_\_\_to \_\_\_\_feet Duration 24 hrs., 0 min. SCREEN SIZE:\_\_\_\_inches from \_\_\_\_\_to \_\_\_\_feet WATER ZONES: from 120 to feet \_\_\_\_inches from \_\_\_\_to \_\_\_feet from\_\_\_\_\_to\_\_\_ inches from \_\_ to... feet CASE SIZE: 611 heavy wall 0 to 55 feet from \_\_\_\_\_to\_\_\_feet 19-1b WATER: Color\_\_\_\_\_Taste\_\_\_\_ \_\_\_\_inches from\_\_\_to\_\_\_feet Odor\_\_\_\_\_\_Temp. \_\_\_\_\_\_\_°F \_\_\_\_inches from \_\_\_\_to\_\_\_feet GROUTING: Method \_\_\_pumped WELL TO SUPPLY: (check one) Home \_ Material cement Depth\_\_\_\_\_ Farm \_\_\_\_\_ Town \_\_\_\_ School \_\_\_ Type \_\_\_submersible Industry\_\_\_\_Other\_campground PUMP: 60 gal per min WATER ANALYSIS AVAILABLE:Yes\_\_\_\_No\_X Capacity\_\_\_\_ 151 Yes 15 No Depth of intake \_\_\_ DRILL CUTTINGS SAVED: (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.) MARKS: Well #2

C-5

W-2485

FURNISHED BY: Frank W. Martin Drilling Co. Inc. DATE: March 11, 1969

		JAMES L. CALVER, COMMISSIONER W			
ornig DEPTH settofror (feet)		TYPE OF ROCK OR SOIL PENETRATED		REMARKS REMARKS	
FROM TO	0	(gravel, clay, etc., hardness, colo	r, etc.)	(water, caving, shot, screen, sample, etc.)	
0 30 30 16		Dirt and boulders Gray rock	Maril, Forest	TENANT, Cave Springs Area, Jeff.	
			in Co. luc.	DRILLER F ROLW. Martin Drill	
to (noit5 wib)_		Approx 1 1 2 Meets northwest		WELL LOCATION County Lee	
1805	A .JB	to (notice tib) Jeew Josi	ı	Dryden	
				(GIVE DIRECTION AND DISTANCE IN FEET OR	
2901	21,	ATE COMOLETEN PEDICATY	. 9	COUNTY HIGHWAY OR OTHER MAP.) DATE STARTED FEDIDALY 18, 190	
		TOTAL DEPTH		TYPE OF DRILL PIG USED SITE	
				WATER LEVEL: Stends 53.81	
		atuning raid and (top			
		HOLE SIZE 10 money from 0		YIELD TEST Medica paran	
1.01_021_0	-2/1	Smoot section 3	tas	neo hwo 10	
(0s1 6		manbes them	nle	Rote 20 gall per	
10 9/10	t	SCREEN SIZEnones toom	01	Caronon 25 pro 0 - p	
10910	1	most anden	1991	WATER ZONES: rom 120 ho	
19310	f	nothes (som	1881		
1961 12 0	1_0	GASE SIZE 6" heary wall	1007	01moy!	
(30)0	J			WATER Color	
		most reduction	40	OdorTemp	
		GROUTING Memos pumped		WELL TO SUPPLY (check one) Home.	
1501		ad inermed inherem		Tora Town School	
	5.	PUMP: Type submoralb	baus	E (QCD CO madfo yalaubal	
num negi log				WATER ANALYSIS AVAILABLE Yes_	
Lee1	50			Dell CUTTINGS SAVED! Yes	
	SHIPPI /	TERVALS THESE SAMPLES MAY BE	AT 10 FOOT IN	ORRILL OUTTINGS SHOULD BE COLLECTED OFFICE EXPRESS COLLECT. SAMPLE BAG	
				MARKS: Well#2	

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

#### INTERVAL SHEET

Page 1 of 1 Well Repository No: 2485

Date rec'd: 4/11/69 Sample Interval: from 0 to: 160'

PROPERTY: U. S. Forest Service Number of samples: 15

(Cave Springs #2)

COMPANY: F. W. Martin Drilling Co. Total Depth: 160'

COUNTY: Lee (Dryden) Oil or Gas: Water: XExploratory:

	From - To	From - To	From - To	From - To
	0 - 10	-	-	-
	10 - 20	=	-	-
	20 - 30	-	<del>**</del>	-
	30 - 40	~		-
	40 - 50	<del>-</del> ,	-	-
	50 - 60	_	<u>~</u>	-
1	60 - 70	_	_	_
	70 - 80	_		-
	80 - 90	_	<u>-</u> ,	_
	90 - 100	_	_	_
	, 0 100			
	100 - 110	_		-
	110 - 120	-		-
+	-	-	-	-
	130 - 140	-	-	-
	140 - 150	_	(m)	-
	150 - 160	-	1 <del>-</del> 2	-
		-	( <del>-</del> )	-
	-	-	-	:=:
	-	-	:. <del></del> :	_
	-	-	i—	-
	_		-	-
	-	_	n=0	-
	-			_
	_	-	<u>-</u>	-
	-	_	-	-

All intervals have both washed and unwashed samples.

OWNER: U.S. Forest Service (Cave Springs #2)

W: 2485

DRILLER: F. W. Martin Drilling Co.

C: 5

COUNTY: Lee (Dryden)

TOTAL DEPTH: 160'

# GEOLOGIC LOG

Depth in feet		
0-10	Siltstone and sandstone — light brown to buff; very fine to coarse grained, subrounded to angular; slightly micaceous in silty portion; clayey; a few grains of ironstone; hard to friable; little porosity	
10-20	Siltstone and sandstone — light brown to light greenish- gray; very fine to coarse grained, subrounded to angular; slightly micaceous, lithic; traces of magnetite (?) and ironstone; hard; little porosity	
20-30	Siltstone - blackish-gray; shaly, slightly micaceous and carbonaceous; little porosity	
30-40	m <sup>a</sup>	
40-50	gray	
50-60	Siltstone - gray; shaly, slightly micaceous and carbonaceous; little porosity	
60-70	Shale - gray; silty, slightly micaceous and carbonaceous; firm	
70-80	п	
80-90	Siltstone - gray; shaly, slightly micaceous and carbon-aceous; firm	
90-100	" little porosity	
100-110	и и	
110-120	п п	
120-130	No sample	
130-140	Shale - gray; silty, micaceous and carbonaceous	
140-150	Siltstone - gray; shaly, micaceous and carbonaceous; little porosity	

U. S. Forest Service (Cave Springs #2)

150-160

Siltstone — gray; shaly, micaceous and carbonaceous; little porosity, with trace of pyrite

- 2 -

### GEOLOGIC SUMMARY

ROCK UNIT

AGE

Lee Formation

Lower Pennsylvanian

Virginia Division of Mineral Resources Donald H. Fulkerson, Geologist January 6, 1970