

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
P.O. 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: National Park Service Mailing Address: Luray, Va.

TENANT: (SNP - Pinnacles #1) Mailing Address:

DRILLER: C. R. Moore Well Drilling Co. Mailing Address: Charlottesville, Va.

WELL LOCATION: County Madison Approx. 70 feet north (direction) of
Well #2 and feet north (direction) of Skyline Drive

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

DATE STARTED: 10/26/71 DATE COMPLETED: 10/27/71

TYPE OF DRILL RIG USED: Air Rotary TOTAL DEPTH 220 feet

WATER LEVEL: Stands 29.1 feet below surface OR
has NATURAL flow of 2 gallons per minute.

YIELD TEST: Method air lift
Drawdown _____ feet
Rate 12 gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 9 inches from 0 to 82 feet
6 inches from 82 to 220 feet
_____ inches from _____ to _____ feet
SCREEN SIZE: _____ inches from _____ to _____ feet

WATER ZONES: from 50 to 51 feet
from 75 to 76 feet
from _____ to _____ feet

_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
CASE SIZE: 6 1/4 inches from 0 to 82 feet
Pulled

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry _____ Other Government ob. well

GROUTING: Method none; hole abandoned
Material _____ Depth _____ feet
PUMP: Type None

WATER ANALYSIS AVAILABLE: Yes _____ No _____

Capacity _____ gal. per min

DRILL CUTTINGS SAVED: Yes 44 No _____

Depth of intake _____ 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:

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

INTERVAL SHEET

Page 1 of 1 Well Repository No: C-65 3289
 Date rec'd: 11/15/71 : processed 11/11/71 Sample Interval: from 0 to 220'
 PROPERTY: National Park Service Number of samples: 44
 (SNP - Pinnacles #1)
 COMPANY: C. R. Moore Well Drilling Co. Total Depth: 220'
 COUNTY: Madison (Syria) Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 5	125 - 130	-	-
5 - 10	130 - 135	-	-
10 - 15	135 - 140	-	-
15 - 20	140 - 145	-	-
20 - 25	145 - 150	-	-
25 - 30	150 - 155	-	-
30 - 35	155 - 160	-	-
35 - 40	160 - 165	-	-
40 - 45	165 - 170	-	-
45 - 50	170 - 175	-	-
50 - 55	175 - 180	-	-
55 - 60	180 - 185	-	-
60 - 65	185 - 190	-	-
65 - 70	190 - 195	-	-
70 - 75	195 - 200	-	-
75 - 80	200 - 205	-	-
80 - 85	205 - 210	-	-
85 - 90	210 - 215	-	-
90 - 95	215 - 220	-	-
95 - 100	-	-	-
100 - 105	-	-	-
105 - 110	-	-	-
110 - 115	-	-	-
115 - 120	-	-	-
120 - 125	-	-	-

All intervals have both washed and unwashed samples



OWNER: National Park Service (SNP - Pinnacles #1)
DRILLER: C. R. Moore Well Drilling Co.
COUNTY: Madison (Syria)

W# 3289
C# 65
T.D. 220'

GEOLOGIC LOG

Depth
(in feet)

OVERBURDEN (0-80')

0-5	Weathered granodiorite – light to dark brown, medium crystalline; clear to opaque quartz, potassium feldspar, muscovite, kaolinite and a trace of ilmenite
5-10	"
10-15	"
15-20	"
20-25	"
25-30	"
30-35	"
35-40	"
40-45	"
45-50	"
50-55	"
55-60	"
60-65	" less weathered
65-70	" "
70-75	" "
75-80	" "

OWNER: National Park Service
(SNP - Pinnacles #1)

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W# 3289
C# 65

PEDLAR FORMATION (80-220')

80-85	Granodiorite – light to dark green and light brown, medium crystalline; clear to opaque quartz, potassium feldspars, plagioclase, biotite and ilmenite; a trace of muscovite and a few fragments of weathered granodiorite
85-90	"
90-95	"
95-100	"
100-105	" no weathered material
105-110	" "
110-115	" "
115-120	" "
120-125	" "
125-130	" "
130-135	" "
135-140	Granodiorite – light green to gray, medium crystalline; clear to opaque quartz, potassium feldspars, plagioclase, ilmenite and biotite
140-145	"
145-150	"
150-155	"
155-160	"
160-165	"
165-170	"

OWNER: National Park Service -3-
(SNP - Pinnacles #1)

W# 3289
C# 65

170-175 Granodiorite - light green to gray, medium crystalline; clear to opaque quartz, potassium feldspars, plagioclase, ilmenite and biotite

175-180 "

180-185 "

185-190 "

190-195 "

195-200 Metabasalt* and granodiorite - metabasalt is dark purple-gray, fine crystalline with green epidote, white quartz, albite and calcite; granodiorite is light grayish-green, medium crystalline with clear to opaque quartz, potassium feldspars, plagioclase and ilmenite

200-205 Granodiorite - light green to gray, medium crystalline; clear to opaque quartz, potassium feldspar, plagioclase, ilmenite and biotite

205-210 "

210-215 "

215-220 "

GEOLOGIC SUMMARY

<u>Thickness (ft)</u>	<u>Rock Unit</u>	<u>Age</u>
0-80'	Overburden	-
80-220'	Pedlar Formation	Precambrian

* Metabasalt in the 195 to 200-foot interval is probably from a feeder dike for the Catoctin Formation

Virginia Division of Mineral Resources
Ernest B. Nuckols, III
November 26, 1971