

Interval Sheet

Sheet No. _____

--- Cuttings

---- Core

----- Water Well

---- Gas Well

From-To

From-To

From-To

From-To

From-To

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

Total Depth _____

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
DIVISION OF MINERAL RESOURCES
Box 3667, University Station, Charlottesville, Virginia

WVCR 141
VDMR 454

Well No. 2 WATER WELL COMPLETION REPORT

OWNER: Town of Mt. Jackson Mailing Address: Mt. Jackson, Virginia
 TENANT: _____ Mailing Address: _____
 DRILLER: Mitchell No. 65) Sydnor Pump & Well Mailing Address: Richmond, Virginia
 WELL LOCATION: County (Mt. Jackson) Shenandoah Approx. _____ ft. miles
 (direction) of _____ and _____ ft. miles of _____
(Give direction and distance in feet or tenths of mile from two reference points - roads, towns, rivers, etc. - on county highway or other map.)

WATER CONDITIONS

DEPTH

STATIC WATER LEVEL 56'

WATER ZONES (fissures or formations supplying water)

93 (from) 97 (to) _____ (from) _____ (to)
223 _____ ft. 224 _____ ft.

Air lifted QUANTITY OF WATER

WELL PUMPED (or bailed) at 75 Gal. per Min. with
200 feet **DRAWDOWN** after 28 HOURS PUMPING.

FLOW (natural) _____ G.P.M. HEAD _____ ft. (above ground) **W**

REMARKS: Water carrying clay color-at end of Air lift.

QUALITY OF WATER

COLOR _____ TASTE _____

ODOR _____ OTHER _____

ANALYSIS: AVAILABLE - Yes No ATTACHED Yes No

TEMPERATURE 56°F

WATER _____ (from) _____ ft. _____ (to) _____ ft.
(salt, brackish, iron, sulfur, acid, other)

USE OF WATER: Domestic Town Industry Farm Public

N 8-5-60

Well is located on Grammer School property, Town of Mt. Jackson

E

The Town has a turbine pump which will be put in the well to pump until the water is clear.

S

CONSTRUCTION

RIG TYPE (or method) Air Rotary 4" discharge
(rotary, cable, bored, driven, etc.)

DATE: Started 7-23-60; Completed 8-1-60

TOTAL DEPTH 284 ft.

BEDROCK at 32 ft.

GROUTING INFORMATION

METHOD USED Gravity

GROUTING MATERIAL Cement & Water

DEPTH OF GROUTING 60'

HOLE SIZE

(diam.)	(from)	(to)
<u>10</u> in	<u>0</u> ft	<u>100</u> ft
<u>6 1/2</u>	<u>100</u>	<u>284</u>

CASING SIZE

(diam.)	(from)	(to)
_____ in	<u>0</u> ft	<u>100</u> ft
_____	_____	_____

SCREEN (or perforations)

(diam.)	(from)	(to)	(opening size)
_____ in	_____ ft.	_____ ft.	_____

PUMP (installed)

TYPE Turbine Cap. (gpm) 4" discharge

177' Depth of intake 210 ft.

REMARKS: A quantity of water was sealed out with the first line of pipe. This flow could not be measured correctly but it is thought to be 50 G.P.M. plus. This water could be developed by perforating the casing. It was decided to fully evaluate the water at 223' and at a later date consider development of the top flow.

Log of well (over) by Jesse Snyder

LOG

FURNISHED BY Sydnor Pump & Well Co., Inc.

DATE: 8-1-60

Driller John Mitchells log

By Jesse Snyder

DEPTH (feet)		TYPE OF SOIL OR ROCK PENETRATED (gravel, clay, etc., hardness, color, etc)	REMARKS (water, caving, shot, screen, sample, etc)
FROM	TO		
0	5	Red clay	
5	11	Gravel	
11	23	Hard Red clay	
23	24	Limestone boulder	
24	32	Red clay boulders	
32	35	Blue limestone	
35	36	Crack (no return)	
36	43	Blue Limestone	
43	46	Broken Rock Cracks	
46	62	Hard gray limestone	
62	65	Broken Area - no return (lost dust - first water)	
65	93	Hard gray limestone	
93	97	Broken formation - water no return	
97	100	Hard Rock	
100	126	Hard gray limestone	
126	222	Hard blue limestone	
222	223	Broken Rock - Yellow shale ? water - (Developed to 75 GPM)	
223	284	Hard Blue Limestone	

WATER WELL COMPLETION REPORT
 Department of Conservation and Economic Development
 VIRGINIA DIVISION OF MINERAL RESOURCES
 Box 3667, University Station, Charlottesville, Virginia

Law
 141
 W-454

Well No 2

OWNER: Town of Mt. Jackson Address: Mt. Jackson Virginia

TENENT: _____
 WELL LOCATION: Town Mt Jackson, County Shenandoah, Approx. _____ ft. miles

(direction) of _____ and _____ ft. miles of _____
 (Give directions and distance in feet or tenths of miles from two reference points shown on topographic or county highway maps.)

DRILLER: (Mitchell No 65) Snyder Pump & Well Co Inc
 Address: Richmond, Virginia

WATER CONDITIONS

DEPTH
 STATIC WATER LEVEL 56'
 WATER (aquifers):
93' (from) ft. 97' (to) ft.
223' (from) ft. 224' (to) ft.

YIELD
Airlifted
 WELL PUMPED (or boiled) at 75 G.P.M. with 200 ft. DRAWDOWN
 after 28 hrs. PUMPING.

ARTESIAN (natural) FLOW _____ G.P.M.; HEAD _____ ft. (above grnd.)
 REMARKS: Water carrying clay color - at end of Air lift.

QUALITY OF WATER

COLOR _____ TASTE _____
 ODOR _____ OTHER _____
 ANALYSIS: AVAILABLE - Yes No ; ATTACHED - Yes No
 TEMPERATURE 56° F (from) _____ (to) _____
 (salt, brackish, iron, sulfur, acid, other) WATER _____ ft. _____ ft.

USE OF WATER

FOR Town (domestic, town, industry, irrigation, etc.)
 ADEQUACY, PERMANENCE _____

PUMP (installed)

TYPE Turbine CAPACITY GRM 4" discharge
127' air line DEPTH OF INTAKE 210

CONSTRUCTION

RIG TYPE (or method) Air Rotary (rotary, cable, bored, pug, driven, etc.)
 DATE STARTED 7-23-60; COMPLETED 8-1-60
 TOTAL DEPTH 284 ft.
 BEDROCK at 32' ft.
 SURFACE ELEVATION _____ ft.

LOCATION SKETCH OR MAP TRACING
 8-5-60

N

Well is located on Grammar school Property - Town of Mt Jackson

W E

The Town has a turbine pump which will be put in the well to pump until the water is clear

S

HOLE SIZE

(diam.)	(from)	(to)
10 in.	0 ft.	100 ft.
6 1/2 in.	100 ft.	284 ft.

CASING SIZE

(diam.)	(from)	(to)
0 in.	0 ft.	100 ft.

SCREEN (or perforations)

(diam.)	(from)	(to)	(opening size)
_____ in.	_____ ft.	_____ ft.	_____

OTHER CONSTRUCTION INFORMATION: (gravel pack, depth and size of shot, packer, plugs, etc.)
Well is Class I A Construction - Bottom 40' is Gravel Packed - Top 60' Grouted See remarks -

REMARKS: A Quantity of water was sealed out with the first line of pipe. This flow could not be measured correctly but it is thought to be 50 G.P.M. plus. This water could be developed by perforating the casing. It was decided to fully evaluate the water at 223' and at a later date consider development of the top flow.

GROUTING INFORMATION
 Method Used: - Gravity
 Grouting Materials: Cement & Water
 Depth of Grouting: 60'

Samples sent Charlottesville
 Log of well (over) By Jesse Snyder