

INTERVAL SHEET

Page 1

VDMR WELL NO. 420

Sample Interval: from 70 to 220

PROP: Town of New Market Well #1

Total Depth: 225

COMP: Sydnor Pump & Well Co.

Oil Gas Water  Exploratory

COUNTY: Shenandoah

Cuttings  Core Other

From-To From-To From-To From-To From-To

70 - 80 - - - -

80 - 90 - - - -

90 - 100 - - - -

100 - 110 - - - -

110 - 120 - - - -

Complete set of water samples

120 - 130 - - - -

130 - 140 - - - -

140 - 145 - - - -

145 - 150 - - - -

160 - 170 - - - -

174 - 178 - - - -

180 - 190 - - - -

190 - 195 - - - -

195 - 200 - - - -

200 - 210 - - - -

210 - 220 - - - -

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45  
W-420

WATER WELL COMPLETION REPORT

OWNER: Town of New Market Mailing Address: New Market, Virginia

TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

DRILLER: Sydnor Pump & Well Co., Inc. Mailing Address: 1305 Brook Road, Richmond, Va.

WELL LOCATION: County Shenandoah Approx. 1 Mile ft. miles  
West (direction) of New Market, Virginia and near Shenandoah Academy ft. miles

(Give direction and distance in feet or tenths of mile from two reference points—roads, towns, rivers, etc.—on county highway or other map.)

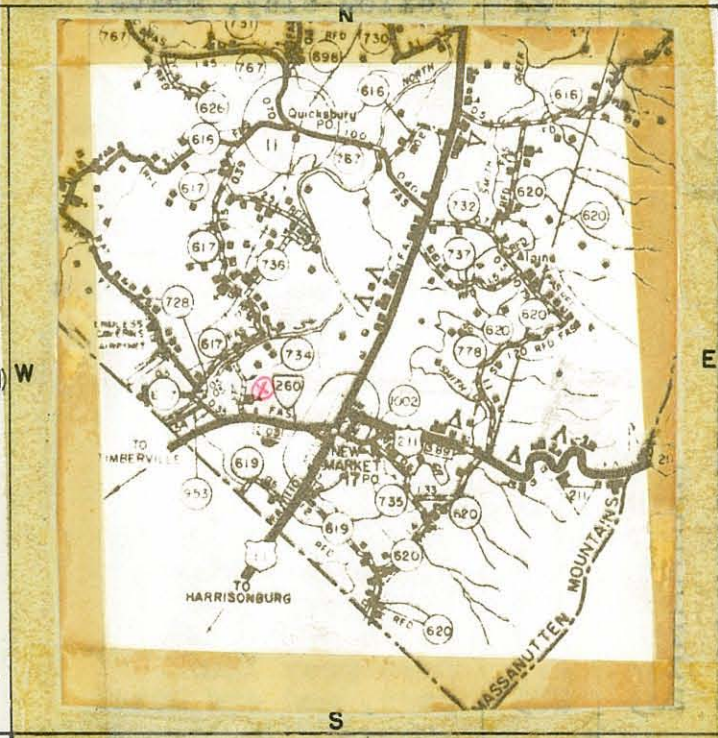
WATER CONDITIONS

DEPTH  
 STATIC WATER LEVEL 42 feet

WATER ZONES (fissures or formations supplying water)  
 (from) (to) (from) (to)  
 \_\_\_\_\_ ft. \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. \_\_\_\_\_ ft.

QUANTITY OF WATER  
 WELL PUMPED (or bailed) at 200+ Gal. per Min. with  
? feet DRAWDOWN after \_\_\_\_\_ HOURS PUMPING.  
 FLOW (natural) \_\_\_\_\_ G.P.M. HEAD \_\_\_\_\_ ft. (above ground)

REMARKS: \_\_\_\_\_



QUALITY OF WATER

COLOR \_\_\_\_\_ TASTE \_\_\_\_\_  
 ODOR \_\_\_\_\_ OTHER \_\_\_\_\_

ANALYSIS: AVAILABLE— Yes  No  ATTACHED Yes  No

TEMPERATURE \_\_\_\_\_  
 \_\_\_\_\_ WATER (from) \_\_\_\_\_ ft. (to) \_\_\_\_\_ ft.  
(salt, brackish, iron, sulfur, acid, other)

USE OF WATER: Domestic  Town  Industry  Farm  Public

CONSTRUCTION

RIG TYPE (or method) air-rotary  
(rotary, cable, bored, driven, etc..)

DATE: Started 11/16/59; Completed 12/3/59

TOTAL DEPTH 225 ft.

BEDROCK at \_\_\_\_\_ ft.

HOLE SIZE

(diam) (from) (to) ft. ft.  
10" in \_\_\_\_\_ ft. \_\_\_\_\_ ft.  
6 1/2" in \_\_\_\_\_ ft. \_\_\_\_\_ ft.

CASING SIZE

(diam) (from) (to) ft. ft.  
7" OD in \_\_\_\_\_ ft. \_\_\_\_\_ ft.  
0 in \_\_\_\_\_ ft. \_\_\_\_\_ ft.

SCREEN (or perforations)

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

PUMP (installed)

TYPE \_\_\_\_\_ Cap. (gpm) \_\_\_\_\_

H.P. \_\_\_\_\_ Depth of intake \_\_\_\_\_ ft.

GROUTING INFORMATION

METHOD USED cement slurry

GROUTING MATERIAL Portland cement

DEPTH OF GROUTING 90 feet

REMARKS: Well was pumped at 150 Gallons Per Minute with 39 ft. drawdown.  
See letter of Feb 4, 1960 from sydnor for casing info

UDMR#-420

Ph 4.0 Temp 52° near contact 4b-01m - RHR 2/5/60

FURNISHED BY **Sydnor Pump & Well Co., Inc.**

DATE: **2/3/60**

| DEPTH (feet)                    |                                 | TYPE OF SOIL OR ROCK PENETRATED<br>(gravel, clay, etc., hardness, color, etc) | REMARKS<br>(water, caving, shot, screen, sample, etc.) |
|---------------------------------|---------------------------------|---|--|
| FROM                            | TO                              |   |  |
| 0                               | 3                               | top soil  |  |
| 3                               | 6                               | yellow clay, sand, gravel   |  |
| 6                               | 8                               | yellow clay   |  |
| 8                               | 9                               | gray lime   |  |
| 9                               | 22                              | yellow clay, gravel   |  |
| 22                              | 24                              | gray lime   |  |
| 24                              | 25                              | yellow clay   |  |
| 25                              | 34                              | hard gray rock  |  |
| 34                              | 46 <sup>1</sup> / <sub>2</sub>  | yellow clay boulders  |  |
| 46 <sup>1</sup> / <sub>2</sub>  | 48 <sup>1</sup> / <sub>2</sub>  | hard gray rock  |  |
| 48 <sup>1</sup> / <sub>2</sub>  | 49                              | crack   |  |
| 49                              | 51                              | hard rock with cracks   |  |
| 51                              | 53                              | hard rock   |  |
| 53                              | 57                              | clay, yellow boulders   |  |
| 57                              | 64                              | hard rock   |  |
| 64                              | 65                              | soft rock   |  |
| 65                              | 70                              | clay and boulders   |  |
| 70                              | 85                              | hard rock   |  |
| 85                              | 107 <sup>1</sup> / <sub>2</sub> | hard gray rock  |  |
| 107 <sup>1</sup> / <sub>2</sub> | 138                             | hard gray lime  |  |
| 138                             | 147                             | light gray lime   |  |
| 147                             | 174                             | hard gray lime  |  |
| 174                             | 188                             | light gray lime   |  |
| 188                             | 190                             | hard gray lime  |  |
| 190                             | 195                             | light gray lime   |  |
| 195                             | 223                             | hard gray lime  |  |
| 223                             | 225                             | cave, mud and water   |  |

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT  
DIVISION OF MINERAL RESOURCES

Box 3667, University Station, Charlottesville, Virginia

WWCR -#45  
VDMR -#420

WATER WELL COMPLETION REPORT

OWNER: Town of New Market Mailing Address: New Market, Virginia  
 TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_  
 DRILLER: Sydnor Pump & Well Co., Inc. Mailing Address: 1305 Brook Road, Richmond, Va.  
 WELL LOCATION: County Shenandoah Approx. 1 mile ft. miles  
West (direction) of New Market, Va. and ft. miles near of Shenandoah Academy  
(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 42 feet  
 WATER ZONES (fissures or formations supplying water)  
 (from) (to) (from) (to)  
 \_\_\_\_\_ ft. \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. \_\_\_\_\_ ft.

**QUANTITY OF WATER**

WELL PUMPED (or bailed) at 200 + Gal. per Min. with  
 \_\_\_\_\_ feet **DRAWDOWN** after \_\_\_\_\_ HOURS PUMPING.  
 FLOW (natural) \_\_\_\_\_ G.P.M. HEAD \_\_\_\_\_ ft. (above ground) **W**  
 REMARKS: \_\_\_\_\_

**QUALITY OF WATER**

COLOR \_\_\_\_\_ TASTE \_\_\_\_\_  
 ODOR \_\_\_\_\_ OTHER \_\_\_\_\_  
 ANALYSIS: AVAILABLE— Yes  No  ATTACHED Yes  No   
 TEMPERATURE \_\_\_\_\_  
 \_\_\_\_\_ WATER (from) \_\_\_\_\_ ft. (to) \_\_\_\_\_ ft.  
(salt, brackish, iron, sulfur, acid, other)  
 USE OF WATER: Domestic  Town  Industry  Farm  Public

**CONSTRUCTION**

RIG TYPE (or method) air-rotary  
(rotary, cable, bored, driven, etc..)  
 DATE: Started 11/16/59; Completed 12/3/59  
 TOTAL DEPTH 225 ft.  
 BEDROCK at \_\_\_\_\_ ft.

**GROUTING INFORMATION**

METHOD USED Cement slurry  
 GROUTING MATERIAL Portland cement  
 DEPTH OF GROUTING 90'

**HOLE SIZE**

**CASING SIZE**

| HOLE SIZE |        |        | CASING SIZE |        |      |
|-----------|--------|--------|-------------|--------|------|
| (diam)    | (from) | (to)   | (diam)      | (from) | (to) |
| 10" in    | 0      | 90' ft | 7" OD       | 0      | 90   |
| 6 1/4"    | 90     | 225    |             |        |      |

SCREEN (or perforations)  
 (diam) (from) (to) (opening size)  
 \_\_\_\_\_ in \_\_\_\_\_ ft. \_\_\_\_\_ ft.

**PUMP (installed)**

TYPE \_\_\_\_\_ Cap. (gpm) \_\_\_\_\_  
 H.P. \_\_\_\_\_ Depth of intake \_\_\_\_\_ ft.

REMARKS: Well was pumped at 150 gallons per minute with 39 ft. drawdown.  
See letter of Feb. 4, 1960 from Sydnor for casing infor.  
Ph approx. 6.0 Temp. 52° near contact c b-olm -RHD 2/5/60

## LOG

FURNISHED BY Sydnor Pump & Well Co., Inc.DATE: 2/3/60

| DEPTH<br>(feet)   |                   | TYPE OF SOIL OR ROCK PENETRATED<br>(gravel, clay, etc., hardness, color, etc) | REMARKS<br>(water, caving, shot, screen, sample, etc) |
|-------------------|-------------------|---|---|
| FROM              | TO                |   |   |
| 0                 | 3                 | top soil  |   |
| 3                 | 6                 | yellow clay, sand, gravel   |   |
| 6                 | 8                 | yellow clay   |   |
| 8                 | 9                 | gray lime   |   |
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| 22                | 24                | gray lime   |   |
| 24                | 25                | yellow clay   |   |
| 25                | 34                | hard gray rock  |   |
| 34                | 46 $\frac{1}{2}$  | yellow clay boulders  |   |
| 46 $\frac{1}{2}$  | 48 $\frac{1}{2}$  | hard gray rock  |   |
| 48 $\frac{1}{2}$  | 49                | crack   |   |
| 49                | 51                | hard rock with cracks   |   |
| 51                | 53                | hard rock   |   |
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| 65                | 70                | clay and boulders   |   |
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| 85                | 107 $\frac{1}{2}$ | hard gray rock  |   |
| 107 $\frac{1}{2}$ | 138               | hard gray lime  |   |
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| 147               | 174               | hard gray lime  |   |
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| 195               | 223               | hard gray lime  |   |
| 223               | 225               | cave, mud and water   |   |