

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:  
Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES  
JAMES L. CALVER, COMMISSIONER  
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

OWNER: Darrell A. Hart Mailing Address: Bowling Green, Va. 22527

TENANT: Bowling Green Camp Well #2 Mailing Address: \_\_\_\_\_

DRILLER: Mitchell's Well & Pump Company Mailing Address: Rt. 1, Box 110, Co. Hgts. Va. 23834

WELL LOCATION: County Caroline County Approx. 2 1/2 <sup>feet</sup> miles South (direction) of  
Bowling Green on #301 and \_\_\_\_\_ <sup>feet</sup> miles \_\_\_\_\_ (direction) of \_\_\_\_\_

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

DATE STARTED: July 1972 DATE COMPLETED: July 1972

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 255 feet

WATER LEVEL: Stands 37 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Pumped  
Drawdown 200 feet  
Rate 8 gal. per min.  
Duration 20 hrs., \_\_\_\_\_ min.  
continuous pumping

HOLE SIZE: 10 inches from 0 to 50 feet  
4 1/2 inches from 50 to 255 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
SCREEN SIZE: 4 inches from 214 to 234 feet  
with blank above & 21' blank below

WATER ZONES: from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 4 1/2 inches from 0 to 214'9" feet  
4 1/2 inches from 234 to 255 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color Clear Taste Good  
Odor None Temp. \_\_\_\_\_ °F

GROUTING: Method Pumped  
Material cement & water Depth 50 feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other Camp

PUMP: Type Submersible  
Capacity \_\_\_\_\_ gal per min  
Depth of intake \_\_\_\_\_ feet

WATER ANALYSIS AVAILABLE: Yes X No \_\_\_\_\_

DRILL CUTTINGS SAVED: Yes X 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: #2 Well

# LOG

FURNISHED BY: Mitchell's Well & Pump Company

DATE: October 13, 1972

| DEPTH<br>(feet)   |     | TYPE OF ROCK OR SOIL PENETRATED<br>(gravel, clay, etc., hardness, color, etc.) | REMARKS<br>(water, caving, shot, screen, sample, etc.) |
|---|-----|--|--|
| FROM  | TO  |  |  |
| 0   | 10  | yellow mud and sand  | Sample #<br>1  |
| 10  | 20  | ditto  | 2  |
| 20  | 30  | "  | 3  |
| 30  | 40  | yellow sand and pebbles  | 4  |
| 40  | 50  | ditto  | 5  |
| 50  | 60  | gray mud   | 6  |
| 60  | 70  | ditto  | 7  |
| 70  | 80  | "  | 8  |
| 80  | 90  | "  | 9  |
| 90  | 100 | "  | 10   |
| 100   | 110 | "  | 11   |
| 110   | 120 | "  | 12   |
| 120   | 130 | gray mud with shell  | 13   |
| 130   | 140 | ditto  | 14   |
| 140   | 150 | "  | 15   |
| 150   | 160 | "  | 16   |
| 160   | 170 | gray mud   | 17   |
| 170   | 180 | gray mud and shell   | 18   |
| 180   | 190 | gray clay and sand   | 19   |
| 190   | 200 | gray mud, sand and shell   | 20   |
| 200   | 210 | brown clay   | 21   |
| 210   | 220 | gray clay and shell  | 22   |
| 220   | 230 | black mud and shell  | 23   |
| 230   | 240 | white sand   | 24   |
| 240   | 250 | ditto  | 25   |
| 250   | 255 | gray clay  | 26   |
| <p>Samples retained in our office<br/>for pickup by personnel of Division<br/>of Mineral Resources.</p> |     |  |  |

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3695

MAILING ADDRESS:  
Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

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TENANT: Bowling Green Camp well #2 Mailing Address: \_\_\_\_\_

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WELL LOCATION: County Caroline County Approx. 2 1/2 <sup>feet</sup>/<sub>miles</sub> South (direction) of  
Bowling Green on #301 and \_\_\_\_\_ <sup>feet</sup>/<sub>miles</sub> \_\_\_\_\_ (direction) of \_\_\_\_\_

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

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YIELD TEST: Method Pumped  
Drawdown 200 feet  
Rate 8 gal. per min.  
Duration 20 hrs., \_\_\_\_\_ min.  
continuous pumping

HOLE SIZE: 10 inches from 0 to 50 feet  
4 1/4 inches from 50 to 255 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 4 inches from 214 to 234 feet  
with blank above & 21' blank below  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color clear Taste good  
Odor none Temp. \_\_\_\_\_ °F

CASE SIZE: 4 1/4 inches from 0 to 214'9" feet  
4 1/4 inches from 234 to 255 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other camp

GROUTING: Method Pumped  
Material cement&water Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes  No \_\_\_\_\_

PUMP: Type Submersible  
Capacity \_\_\_\_\_ gal per min  
Depth of intake \_\_\_\_\_ feet

DRILL CUTTINGS SAVED: Yes  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: #2 Well

BOWLING GREEN QUADRANGLE

ELEV. :

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

INTERVAL SHEET

Page 1 of 1

Well Repository No.: C-101  
 W-3695

Date rec'd: 10/16/72 Date Processed: 3/20/73

Sample Interval: from 0 to: 255

PROPERTY: D. A. Hart (Bowling Green #2)

Number of samples: 24

COMPANY: Mitchell's Well & Pump Company

Total Depth: 255'

COUNTY: Caroline (Bowling Green)

Oil or Gas: Water: X Exploratory:

| From-To | From-To | From-To | From-To | From-To |
|---------|---------|---------|---------|---------|
| 0-10    | 250-55  | -       | -       | -       |
| 10-20   | -       | -       | -       | -       |
| 20-30   | -       | -       | -       | -       |
| -       | -       | -       | -       | -       |
| 40-50   | -       | -       | -       | -       |
| 50-60   | -       | -       | -       | -       |
| 60-70   | -       | -       | -       | -       |
| 70-80   | -       | -       | -       | -       |
| 80-90   | -       | -       | -       | -       |
| 90-100  | -       | -       | -       | -       |
| 100-110 | -       | -       | -       | -       |
| 110-120 | -       | -       | -       | -       |
| 120-130 | -       | -       | -       | -       |
| 130-140 | -       | -       | -       | -       |
| -       | -       | -       | -       | -       |
| 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: D. A. Hart ( Bowling Green #3)  
Driller: Mitchell's W & P  
County: Caroline

W# 3695  
C# 101  
Total depth: 255'  
Quad:  
Elev:

Depth  
(feet)

WELL LOG

0-10 Sand - grayish orange (10yr 7/4); abundant clay; fine to pebble; sub-angular; poorly sorted; quartz, rose quartz.

10-20 Sand - As above, except: rare, fine black phosphatic fragments;

20-30 Sand - As above.

30-40 No Sample.

40-50 Sand - As above.

50-60 Clay - moderate olive gray (5y 5/1); sparse sand; medium to granule; sub-angular; poor sorting; quartz; magnetite.

60-70 Clay - As above, except: moderate sand; fine; some larger grains; well sorted; quartz; iron.

70-80 Clay - As above, except: sparse sand; medium to granule, poor sorting.

80-90 Clay - As above, except: moderate sand.

90-100 Sand - moderate olive gray (5y 5/1); moderate clay in clasts and pellets; fine to granule, sub-angular; few pebbles; poorly sorted; quartz; 7% (+) fine, glauconite; mica; iron; magnetite; bone chips.

100-110 Sand - As above, except: abundant clay; sand - very well sorted; shell fragments; shark tooth.

110-120 Sand - As above.

120-130 Sand - olive gray (5y 4/1); moderate fine clay; fine to coarse; some very coarse; moderately well sorted; quartz; 7% glauconite; 7% shell fragments; bone fragments; shark teeth; phosphate nodules; flint nodular; foram-Robulus; ostracod.

130-140 Sand - As above, except: 2% shell fragments.

140-150 No Sample.

150-160 Sand - As above, except: fine-grained; very well sorted; quartz; 30% fine green glauconite; 10% fine shell fragments.

160-170 Sand - olive gray (5y 4/1); As above, except: abundant clay; foram-Robulus; no shell fragments.

-2-

Depth  
(feet)

- 170-180 Sand - As above, except: 45% glauconite; sparse shell fragments; forams - Robulus; pyrite impregnated granitic pebble; mica.
- 180-190 Sand - As above, except: 10% + fine grained sized clasts of pale green clay; forams-Lagena; Robulus; Disorbis; minute gastropod.
- 190-200 Sand - As above except: No pale green clay; 5% shell fragments; mica.
- 200-210 Clay - moderate orange brown (10yr 6/4); fine grains of orange and yellow clay - saprolitic feldspar fragments; medium to very coarse; poorly sorted; quartz; mica; magnetite.
- 210-220 Clay - moderate yellow - gray (5y 6/2); abundant fine clay; Sand, very fine to medium; well sorted; quartz; micas-fuschite; biotite; muscovite; phosphatic fragments; iron; magnetite.
- 220-230 Sand - olive gray (5y 4/1); moderate fine clay; medium well sorted; quartz sand; 45% glauconite; 12% shell fragments (Turritella); forams, mica.
- 230-240 Sand - yellowish gray (5y 8/1); minute clay clasts; coarse sub-angular; well sorted; quartz; coarse sized grains of feldspar; iron; mica.
- 240-250 Clay - moderate yellow gray (5y 6/2); As 210'-220'.
- 250-255 Sand - yellowish gray (5y 8/1); As 230'-240'.

Logged By: J. K. Polzin  
June 16, 1980