



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

Box 3667, University Station, Charlottesville, Virginia

WWCR 220  
 VDMR 562

WATER WELL COMPLETION REPORT

OWNER: "Bellemonte Farm" Mailing Address: Churchville, Virginia  
 TENANT: Dr. A. V. Bartenslager Mailing Address: \_\_\_\_\_  
 DRILLER: Sydnor Pump & Well Co., Inc. Mailing Address: Richmond, Virginia  
 WELL LOCATION: County Augusta, Churchville 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 37'  
 WATER ZONES (fissures or formations supplying water)  
 (from) (to) (from) (to)  
 \_\_\_\_\_ ft. \_\_\_\_\_ ft. \_\_\_\_\_ ft. \_\_\_\_\_ ft.

**QUANTITY OF WATER**  
 WELL PUMPED (or bailed) at 12 Gal. per Min. with  
 68 feet DRAWDOWN after 3 HOURS PUMPING.  
 FLOW (natural) \_\_\_\_\_ G.P.M. HEAD \_\_\_\_\_ ft. (above ground)  
 REMARKS: Pumps over 30 GPM farm 125'  
 But carries too much mud sands

**QUALITY OF WATER**  
 COLOR Slightly turbid TASTE o.k.  
 ODOR None OTHER \_\_\_\_\_  
 ANALYSIS: AVAILABLE - Yes  No  ATTACHED Yes  No   
 TEMPERATURE \_\_\_\_\_  
 \_\_\_\_\_ WATER (from) \_\_\_\_\_ ft. (to) \_\_\_\_\_ ft.  
 (salt, brackish, iron, sulfur, acid, other) Grade A Dairy  
 USE OF WATER: Domestic  Town  Industry  Farm  Public

N  
 Bellemonte Farm is about one mile north west of Churchville on U. S. Route 250.  
 W  
 E  
 S

**CONSTRUCTION**

RIG TYPE (or method) Air Rotary (rotary, cable, bored, driven, etc.)  
 DATE: Started 1-18-61; Completed 1-20-61  
 TOTAL DEPTH 148 ft.  
 BEDROCK at 38 ft.

**HOLE SIZE** (diam) \_\_\_\_\_ in. (from) \_\_\_\_\_ ft. (to) \_\_\_\_\_ ft.  
**CASING SIZE** (diam) \_\_\_\_\_ in. (from) \_\_\_\_\_ ft. (to) \_\_\_\_\_ ft.  
**SCREEN (or perforations)** (diam.) \_\_\_\_\_ in. (from) \_\_\_\_\_ ft. (to) \_\_\_\_\_ ft. (opening size) \_\_\_\_\_

**GROUTING INFORMATION**

METHOD USED Gravity  
 GROUTING MATERIAL Cement and water  
 DEPTH OF GROUTING 50' plus

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

REMARKS: More than 20 hours of air lift development was necessary to remove the clay and sands from the weathered area in the well.

Log and samples for Div. of Min. Res.

Log of well (over)



LOG

FURNISHED BY Sydnor Pump and Well Co., Inc.

DATE: 1-20-61

Rig 65 From driller Mitchell Notes by Jesse Snyder, Jr.

DEPTH (feet)		TYPE OF SOIL OR ROCK PENETRATED (gravel, clay, etc., hardness, color, etc)	REMARKS (water, caving, shot, screen, sample, etc)
FROM	TO		
0	1	Top soil	
1	11	Yellow clay	
11	38	Red clay boulders	
38	69	Broken limestone with mud seams	
69	72	Gray limestone	
72	75	Gray limestone	
75	79	Broken limestone (2-3 GPM water)	
79	104	Clay, shale weathered limestone - mud-water	
104	140	Broken limestone cracks (Hard & soft)	
140	144	Gray limestone	
144	146	Open cave- water and mud - 25-40 GPM	
146	148	Broken limestone	
There will be 15' to 20' of Fill in Bottom			



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220  
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Bellefonte Farm "WATER WELL COMPLETION REPORT"

OWNER: Dr. A. V. Bartenstager Mailing Address: Churchville, Virginia  
 TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_  
 DRILLER: Sydner Pump & Well Co. Inc. Mailing Address: Richmond Virginia  
 WELL LOCATION: County Augusta, CHURCHVILLE 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 37'  
 STATIC WATER LEVEL \_\_\_\_\_  
 WATER ZONES (fissures or formations supplying water)  
 (from) \_\_\_\_\_ (to) \_\_\_\_\_ (from) \_\_\_\_\_ (to) \_\_\_\_\_  
 \_\_\_\_\_ ft. \_\_\_\_\_ ft. \_\_\_\_\_ ft. \_\_\_\_\_ ft.

**QUANTITY OF WATER**

WELL PUMPED (or bailed) at 12 Gal. per Min. with  
68 feet DRAWDOWN after 3 HOURS PUMPING.  
 FLOW (natural) \_\_\_\_\_ G.P.M. HEAD \_\_\_\_\_ ft. (above ground)

REMARKS: Pumps over 30 G.P.M. from 12.5'  
But carries too much mud sands

**QUALITY OF WATER**

COLOR Slightly Turbid TASTE OK  
 ODOR None OTHER \_\_\_\_\_

ANALYSIS: AVAILABLE - Yes  No  ATTACHED Yes  No

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

USE OF WATER: Domestic  Town  Industry  Farm  Public

N  
 Bellefonte Farm is about one  
 mile North west of Churchville  
 on U.S. Route 250  
 W  
 E  
 S

**CONSTRUCTION**

RIG TYPE (or method) Air Rotary  
 (rotary, cable, bored, driven, etc.)  
 DATE: Started 1-18-61; Completed 1-20-61  
 TOTAL DEPTH 148 ft.  
 BEDROCK at 38 ft.

**HOLE SIZE**

(diam) \_\_\_\_\_ in (from) \_\_\_\_\_ ft (to) \_\_\_\_\_ ft  
9 \_\_\_\_\_ 0 \_\_\_\_\_ 70 \_\_\_\_\_  
5 \_\_\_\_\_ 70 \_\_\_\_\_ 148 \_\_\_\_\_

**CASING SIZE**

(diam) \_\_\_\_\_ in (from) \_\_\_\_\_ ft (to) \_\_\_\_\_ ft  
5 \_\_\_\_\_ 0 \_\_\_\_\_ 72 \_\_\_\_\_

**SCREEN (or perforations)**

(diam) \_\_\_\_\_ in (from) \_\_\_\_\_ ft (to) \_\_\_\_\_ ft (opening size)

**GROUTING INFORMATION**

METHOD USED Gravity  
 GROUTING MATERIAL Cement + Water  
 DEPTH OF GROUTING 50' plus

**PUMP (installed)**

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

REMARKS: More than 20 hours of Air lift development was  
necessary to remove the clay and sands from the  
weathered ores in the well.

Log and samples for Div of Min Res.

Log of well (over)



Rig 65

FURNISHED BY Sydon Pump & Well Co. Inc.

DATE: 1-20-61

From driller Mitchell Notes By Jesse Snyper

DEPTH (feet)		TYPE OF SOIL OR ROCK PENETRATED (gravel, clay, etc., hardness, color, etc)	REMARKS (water, casing, shot, screen, sample, etc.)
FROM	TO		
0	1	Top soil	
1	11	yellow clay	
11	38	Red clay Boulders	
38	69	Broken Limestone with mud seams	
69	72	gray Limestone	
72	75	1" Limestone Hard	
75	79	Broken Limestone - { 2-3 G.P.M. water	
79	104	clay, shale weathers limestone - mud-water	
104	140	Broken Limestone cracks (Hard & Soft)	
140	144	<del>gray</del> gray Limestone	
144	146	open cave - water & mud - 25-40 G.P.M.	
146	148	Broken Limestone -	
There will Be 15' To 20' of Fill in Bottom -			
<del>Requires over 20hrs Hi lift development to remove mud &amp; clay, sands Broken weathers limestone</del>			
<del>12 G.P.M. from 68'</del>			
<del>15 G.P.M. from 78'</del>			
<del>30 G.P.M. from 125'</del>			
Suggest pump be set around 75' from top of Pipe -			
This well could supply 30-40 G.P.M. By Relining To Hold The sloughing weathers limestone.			

