



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

Box 3667, University Station, Charlottesville, Virginia

WWCR 277  
 VDMR 561

WATER WELL COMPLETION REPORT

OWNER: Trinity United Church of Christ Mailing Address: Mt. Crawford, Virginia  
 TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_  
 DRILLER: Sydnor Pump & Well Co., Inc. Mailing Address: Richmond, Virginia  
 WELL LOCATION: County Rockingham 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 96'  
 WATER ZONES (fissures or formations supplying water)  
 (from) (to) (from) (to)  
 \_\_\_\_\_ ft. \_\_\_\_\_, \_\_\_\_\_ ft. \_\_\_\_\_  
 \_\_\_\_\_ ft. \_\_\_\_\_, \_\_\_\_\_ ft. \_\_\_\_\_

**QUANTITY OF WATER**  
 WELL PUMPED (or bailed) at 50 Gal. per Min. with  
258 feet **DRAWDOWN** after 2 HOURS PUMPING.  
 FLOW (natural) \_\_\_\_\_ G.P.M. HEAD \_\_\_\_\_ ft. (above ground) **W**  
 REMARKS: Water will clear with pumping

**QUALITY OF WATER**  
 COLOR light muddy 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)

USE OF WATER: Domestic  Town  Industry  Farm  Public  **S**

**CONSTRUCTION**

RIG TYPE (or method) Air Rotary  
 (rotary, cable, bored, driven, etc...)  
 DATE: Started 2-27-61; Completed 3-2-61  
 TOTAL DEPTH 260'-10" ft.  
 BEDROCK at 60 ft.

**GROUTING INFORMATION**

METHOD USED Gravity-Vibrated  
 GROUTING MATERIAL Cement & Limestone Powder  
 DEPTH OF GROUTING 132'

**HOLE SIZE**

(diam) (from) (to)  
8 3/4 in 0 ft 132 ft  
5 in 132 ft 260-10 ft

**CASING SIZE**

(diam) (from) (to)  
5 in 0 ft 133'-4" ft

**SCREEN (or perforations)**

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

**PUMP (installed)**

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

REMARKS: Samples saved for Div. of Min. Resources - Charlottesville  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

LOG

FURNISHED BY Sydnor Pump & Well Co., Inc.

DATE: 3-2-61

Rig 65

From Driller John Mitchell's log - 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	Well blew 15 GPM for 2½ hr. from 258'. Started getting water increase and sloughing of clay. Checked out well found sloughing area around and above 117'-Pulled casing resumed to 132'-Reset casing tested and developed-water increased to <u>40 GPM plus</u> Ran guide to center 5" pipe on 5" hole-locked pipe in place on bottom-placed <u>2½ yards of grout</u> From 0 to 132' and vibrated in place for 1½ hrs. Tested well for 2 hrs plus at <u>50 GPM after</u> completion of grouting.
1	13	Red clay	
13	21	Red clay and gravel	
21	27	Yellow clay and limestone soft	
27	35	Yellow clay-marl	
35	60	Pink marl & clay	
60	68	Blue limestone	
68	69	Broken blue limestone (moisture)	
69	73	Blue limestone	
73	76	Broken blue limestone-moisture	
76	78	Gray limestone	
78	79	Broken gray limestone- clay	
79	94	Gray limestone	
94	101	Broken gray limestone-clay seams	
101	116	Very soft gray limestone	
116	117	Broken soft gray limestone	
117	124	Gray limestone - (1 GPM)	
124	139	Gray limestone	
139	140	Broken gray limestone	
140	158	Soft gray limestone	
158	159	Broken gray limestone	
159	184	Soft blue limestone - (5 GPM)	
184	260'	Blue limestone with hard & soft bedding and weathered areas	
	10"		
1	GPM	at 180'	
5	GPM	at 190'	
7	GPM	at 237'	
15	GPM	at 250'- at 2½ hrs. after drilling	
40	GPM plus other developing and setting pipe to 132'		
50	GPM for 2 hrs plus after grouting pipe		

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 DRILLER: Sydney Pump & Well Co Inc Mailing Address: Richmond, Virginia  
 WELL LOCATION: County Rockingham 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 96'  
 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 50 Gal. per Min. with  
238 feet DRAWDOWN after 2 plus HOURS PUMPING.  
 FLOW (natural) \_\_\_\_\_ G.P.M. HEAD \_\_\_\_\_ ft. (above ground) W  
 REMARKS: Water will clear with pumping

QUALITY OF WATER

COLOR light muddy TASTE OK  
 ODOR None OTHER \_\_\_\_\_  
 ANALYSIS: AVAILABLE - Yes  No  ATTACHED Yes  No   
 TEMPERATURE \_\_\_\_\_  
 WATER (from) \_\_\_\_\_ ft. (to) \_\_\_\_\_ ft.  
 (salt, brackish, iron, sulfur, acid, other) Chloride  
 USE OF WATER: Domestic  Town  Industry  Farm  Public

Church property in Mt. Crawford  
 Virginia -

CONSTRUCTION

RIG TYPE (or method) Air Rotary  
 (rotary, cable, bored, driven, etc.)  
 DATE: Started 2-27-61; Completed 3-2-61  
 TOTAL DEPTH 260'-10" ft.  
 BEDROCK at 60 ft.

HOLE SIZE

CASING SIZE

(diam.)	(from)	(to)	(diam.)	(from)	(to)
8 3/4 in.	0	132 ft.	5 in.	0	133'-4"
5 in.	132'	260'-10"			

SCREEN (or perforations)  
 (diam.) (from) (to) (opening size)

GROUTING INFORMATION

METHOD USED Gravity - Vibrated  
 GROUTING MATERIAL Cement + Limestone powder  
 DEPTH OF GROUTING 132'

PUMP (installed)

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

REMARKS: Samples saved for Div. of Min. Resources - Charlottesville

Log of well (over)



LOG

Rig 65

FURNISHED BY Sydnor Pump & Well Co Inc

DATE: 3-2-61

From Driller John Mitchell's Log - By Jesse King

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	Well Blow 15 GPM for 2 1/2 hrs from 258'. Started getting water increase and sloughing of clay. checked out well found sloughing Area around and above 117' - pulled casing Reamed to 132' - Re-set casing Tested and developed - water increases to <u>40 GPM plus</u> - Ran Guide To center 5" pipe on 5" Hole - locked pipe in place on Bottom - <u>Placed 2 1/2 yards of Grout</u> From 0 To 132' and vibrated in place for 1 1/2 hrs. Tested Well for 2 hrs plus at <u>50 GPM</u> after completion of Grouting. Water will clear with pumping
1	13	Red clay	
13	21	Red clay + Gravel	
21	27	yellow clay + Limestone Soft	
27	35	yellow clay - Marl	
35	60	pink Marl + Clay	
60	68	Blue Limestone	
68	69	Broken Blue Limestone (moisture)	
69	73	Blue Limestone	
73	74	Broken Blue Limestone - moisture	
74	78	Gray Limestone	
78	79	Broken Gray Limestone Clay -	
79	94	Gray Limestone	
94	101	Broken Gray Limestone - clay seams	
101	116	Very soft Gray Limestone	
116	117	Broken soft " "	
117	124	Gray Limestone - (1 GPM)	
124	139	Gray Limestone	
139	140	Broken Gray Limestone	
140	158	soft Gray Limestone	
158	159	Broken Gray Limestone	
159	184	soft Blue Limestone - (5 GPM)	
184	260'	10" - Blue Limestone with Hard + soft Bedding and weathered areas -	

1 -	GPM	at 180'
5	GPM	at 190'
7	GPM	at 237'
15	GPM	at 250' - at 2 1/2 hrs after drilling
40	GPM	plus after developing and setting pipe to 132'
30	GPM	for 2 hrs plus after Grouting pipe