

INTERVAL SHEET

205

Page 1

VDMR WELL NO. : WELL NO. 370

Sample Interval: from 75 to 850

PROP: PROP: VIENNA TOWN WELL Total Depth 850

COMP: COMP: HAGMAN

COUNTY: COUNTY: FAIRFAX Oil  Gas  Water  Exploratory

COUNTY: FROM: TO: VDMR WELL NO. : 370

Cuttings  Core  Other

From-To	From-To	From-To	From-To	From-To
75-90	580-590	-	-	-
90-115	590-600	-	-	-
115-130	600-610	-	-	-
130-160	610-620	-	-	-
160-200	620-630	-	-	-
200-220	630-640	-	-	-
220-275	640-650	-	-	-
275-325	650-660 BOX #2	-	-	-
325-330	660-670	-	-	-
330-375	670-680	-	-	-
375-400	680-690	-	-	-
400-410	690-700	-	-	-
410-420	700-710	-	-	-
420-430	710-730	-	-	-
430-440	730-740	-	-	-
440-450	740-750	-	-	-
450-460	750-765	-	-	-
460-465	765-780	-	-	-
465-470	780-800	-	-	-
470-480	800-810	-	-	-
480-490	810-820	-	-	-
490-500	820-830	-	-	-
500-510	830-840	-	-	-
510-520	840-850	-	-	-
520-530	-	-	-	-
530-540	-	-	-	-
540-550	-	-	-	-
550-560	-	-	-	-
560-570	-	-	-	-
570-580	-	-	-	-



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

Box 3667, University Station, Charlottesville, Virginia

WWCR-#205  
VDMR-#370

WATER WELL COMPLETION REPORT

OWNER: Town of Vienna Mailing Address: Town Hall, Vienna, Va.  
TENANT: Well #6 Mailing Address: \_\_\_\_\_  
DRILLER: Hagman Well Drilling Co. Mailing Address: Vienna, Va.  
WELL LOCATION: County Fairfax Approx. 1/2 miles NE (direction) of Town Hall, near intersection of Park st. and Maple Ave.  
(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 142 (8' when drilled)

WATER ZONES (fissures or formations supplying water)

(from) (to) (from) (to)  
300 ? ft. \_\_\_\_\_, 600? ft. \_\_\_\_\_  
350 ? ft. \_\_\_\_\_, \_\_\_\_\_ ft. \_\_\_\_\_

**QUANTITY OF WATER**

WELL PUMPED (or bailed) at 200 Gal. per Min. with 335 feet DRAWDOWN after 40 HOURS PUMPING.

FLOW (natural) \_\_\_\_\_ G.P.M. HEAD \_\_\_\_\_ ft. (above ground)

REMARKS: Plan to pump 180 gpm w/ pump set at 360

**QUALITY OF WATER**

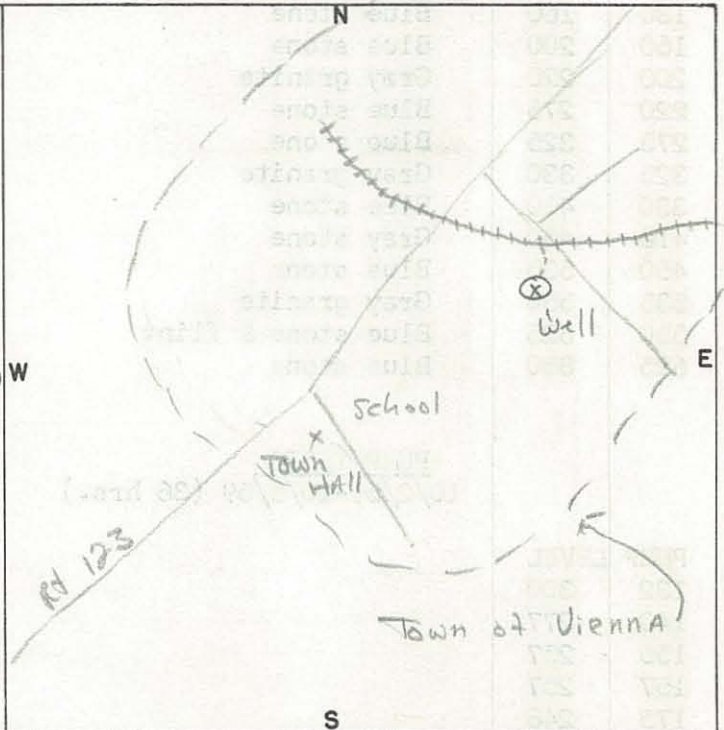
COLOR \_\_\_\_\_ TASTE \_\_\_\_\_

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) Cable  
(rotary, cable, bored, driven, etc..)

DATE: Started \_\_\_\_\_; Completed 9/30/59

TOTAL DEPTH 850 ft.

BEDROCK at 47 ft.

**GROUTING INFORMATION**

METHOD USED \_\_\_\_\_

GROUTING MATERIAL \_\_\_\_\_

DEPTH OF GROUTING \_\_\_\_\_

**HOLE SIZE**

(diam) 14 in. (from) \_\_\_\_\_ ft. (to) 850 ft.

**CASING SIZE**

(diam) 12 in. (from) \_\_\_\_\_ ft. (to) 94 ft.

**SCREEN (or perforations)**

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

**PUMP (installed)**

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

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

REMARKS: Began Well #7 10/8/59  
Probably entirely in Wissachickon schist  
Sample analysis shows 1 rock type w/qtz dominant (Av. approx. 70%)  
Yield decreasing-110/m April '60 80/m after May '60  
Elev. 300'  
Source of information: DeKay & Levan (Driller & logger)

Log of well (over)

LOG

FURNISHED BY S. Wolfe (Town Engineer) from driller's log DATE: 10/28/59

DEPTH (feet)		TYPE OF SOIL OR ROCK PENETRATED (gravel, clay, etc., hardness, color, etc)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	75	Sand, clay, shale	
75	90	Brown shale	
90	115	Gray slate	
115	130	Blue stone	
130	160	Blue stone	
160	200	Blue stone	
200	220	Gray granite	
220	275	Blue stone	
275	325	Blue stone	
325	330	Gray granite	
330	410	Blue stone	
410	450	Gray stone	
450	535	Blue stone	
535	550	Gray granite	
550	625	Blue stone & flint	
625	850	Blue stone	
<u>PUMP TESTS</u> 10/2/59-10/5/59 (36 hrs.)			
PUMP LEVEL			
132	300		Total d'd 325'
140	277		Tests mostly at 1/2 hr intervals
155	257		Pump to advised setting pump
157	257		no lower than 347' w/max. depth
175	248		of intake 357'-hole is 850'
195	240		deep so approx. 500 feet is
215	235		untested.
225	235		SWL at beginning-8'
240	230		" after 36 hr. test -340'
255	230		Well pumped 180' gpm for last
270	225		few hrs (2) w/332' d'd
275	225		
280	220		Town engineer considering set-
285	220		ting pump at 580' (says "zone
285	215		of weakness" may collapse @
287	210		600') & pumping 180 gpm
289	210		
289	205		
292	200		
294	195		
295	190		
296	185		
297	180		
300	180		
317	200	pump "reved up"	
321	200		
327	195		
330	190		
332	185		
333	180		

De Kay  
(Driller & logger)

205

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DIVISION OF MINERAL RESOURCES

Box 3667, University Station, Charlottesville, Virginia

W-370

WATER WELL COMPLETION REPORT

OWNER: Town of Vienna Mailing Address: Town Hall, Vienna, Va.  
 TENANT: well #6 Mailing Address: \_\_\_\_\_  
 DRILLER: Hagman Well Drilling Co. Mailing Address: Vienna, Va  
 WELL LOCATION: County Fairfax Approx. 1/2 miles  
NE (direction) of Town Hall, near intersection of Park St and Maple Ave.

WATER CONDITIONS

DEPTH  
 STATIC WATER LEVEL 7 1/4 (8' when drilled)  
 WATER ZONES (fissures or formations supplying water)  
 (from) (to) (from) (to)  
300 ft. 600 ft.  
350 ft. \_\_\_\_\_ ft.

QUANTITY OF WATER

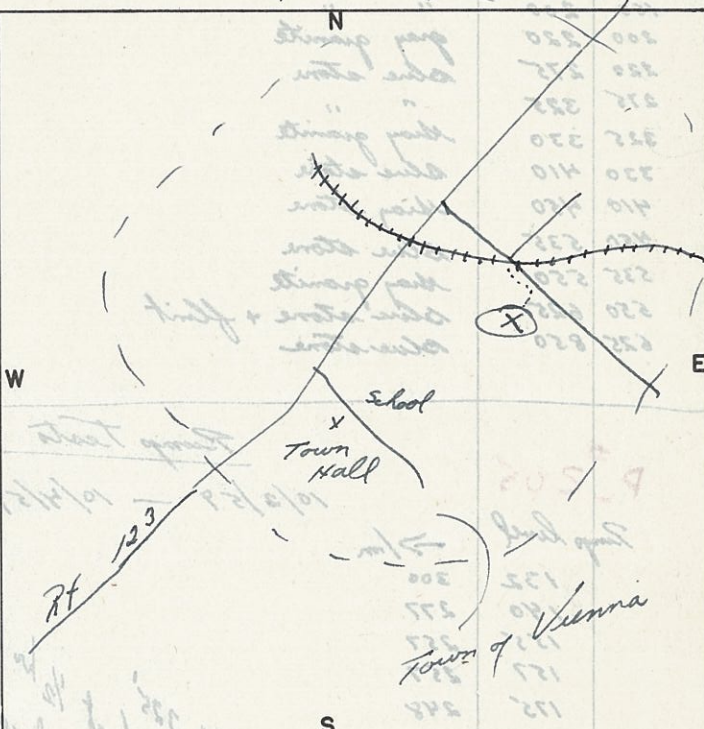
WELL PUMPED (or bailed) at 200 Gal. per Min. with  
335 feet DRAWDOWN after 90 HOURS PUMPING.  
 FLOW (natural) \_\_\_\_\_ G.P.M. HEAD \_\_\_\_\_ ft. (above ground)

REMARKS: Plan to pump 180 gpm w/ pump set at 360

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) \_\_\_\_\_ (rotary, cable, bored, driven, etc...)  
 DATE: Started \_\_\_\_\_; Completed 9/30/59  
 TOTAL DEPTH 850 ft.  
 BEDROCK at 47 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 \_\_\_\_\_  
 GROUTING MATERIAL \_\_\_\_\_  
 DEPTH OF GROUTING \_\_\_\_\_

PUMP (installed)

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

REMARKS: Began well #7 10/8/59  
Probably on track in Wassuckon Schist  
Sample analysis shows rock type w/ gts dominant (av = 70%)  
Elev. 380' yield decreasing - 110/gm April '60  
80/gm after May '60

Log of well (over)

~~W-370~~

7 ca

FURNISHED BY S. Wolfe (Town engineer) from driller log DATE: 10/28/59

DEPTH (feet)		TYPE OF SOIL OR ROCK PENETRATED (gravel, clay, etc., hardness, color, etc)	REMARKS (water, caving, shot, screen, sample, etc)
FROM	TO		
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75	90	Brown shale	
90	115	gray slate	
115	130	blue stone	
130	160	" "	
160	200	" "	
200	220	gray granite	
220	275	blue stone	
275	325	" "	
325	330	gray granite	
330	410	blue stone	
410	450	gray stone	
450	535	blue stone	
535	550	gray granite	
550	625	blue stone + flint	
625	850	blue stone	
<u>Ramp Tests</u>			
10/2/59 — 10/4/59 (36 hrs.)			
<b>P-205</b>			
Pump level	→/m		
132	300		
140	277		
155	257		
157	257		
175	248		
195	240		
215	235		
225	235		
240	230		
255	230		
270	225		
275	225		
280	220		
285	220		
285	215		
287	210		
289	210		
289	205		
292	200		
294	195		
295	190		
296	185		
297	180		
300	180		
317	200	pump "raved up"	
321	200		
327	195		
330	190		
332	185		
333	180		

Max iron pipe to down

Total d'd 325'  
 Tests mostly at 1/2 hr intervals  
 Pump advised setting pump  
 no lower than 347' w/  
 most depth of intake 357'.  
 hole is 850' deep so  
 7500 feet is untested.

SW at beginning - 2'  
 after 36 hrs test - 340'  
 well pumped 1909 pm for  
 lost few hrs (2) 10/32 d'd

Town engineer  
 setting pump at 580'  
 (says zone of weakness  
 may collapse @ 600')  
 & pumping 1809 pm