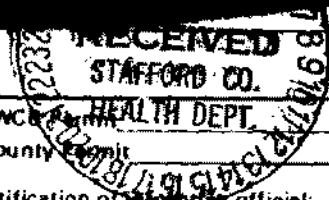


1-1-9 3/1, 9

State Water Control Board  
P. O. Box 11143  
2112 North Hamilton St.  
Richmond, Va. 23230

(Certification of Completion/County Permit)

L.F. Tolson



SWC Permit  
County Permit  
Certification of inspecting official:  
This well does  does not   
meet code/low requirements.  
S. \_\_\_\_\_  
Date \_\_\_\_\_

County/City Stafford

County/City Stamp

Virginia Plane Coordinates  
N \_\_\_\_\_  
E \_\_\_\_\_  
Latitude & Longitude  
N \_\_\_\_\_  
W \_\_\_\_\_  
Topo. Map No. \_\_\_\_\_  
Elevation \_\_\_\_\_ ft.  
Formation \_\_\_\_\_  
Lithology \_\_\_\_\_  
River Basin \_\_\_\_\_  
Province \_\_\_\_\_  
Type Logs D. L.  
Cuttings N. A.  
Water Analysis \_\_\_\_\_  
Aquifer Test \_\_\_\_\_

Owner Clay & Betty Arnold  
Well Designation or Number \_\_\_\_\_  
Address 1523 Walnut Street  
Woodbridge, Va. 22191  
Phone 1-494-2241  
Drilling Contractor John L. Danielson, Jr., Inc.  
Address 4616 Hood Drive  
Fredericksburg, Virginia 22401  
Phone (703) 898-6025

For Office Use  
SD-96-237  
Tax Map I.D. No. 39-1  
Subdivision Spring Hill  
Section \_\_\_\_\_  
Block \_\_\_\_\_  
Lot 21  
Class Well: I \_\_\_\_\_, IIA \_\_\_\_\_  
IIB \_\_\_\_\_, IIIA \_\_\_\_\_, IIIB \_\_\_\_\_  
IIIC \_\_\_\_\_, IIID \_\_\_\_\_, IIIE \_\_\_\_\_

WELL LOCATION: \_\_\_\_\_ (feet/miles) \_\_\_\_\_ direction of \_\_\_\_\_  
and \_\_\_\_\_ feet/miles \_\_\_\_\_ (direction) of \_\_\_\_\_  
(If possible please include map showing location marked) 300' South of Jennifer Lane & Star Drive

Date started 3/5/87 • Date completed 3/5/87 Type rig Air Rotary

I. WELL DATA: New  Reworked \_\_\_\_\_ Deepened \_\_\_\_\_

Total depth 140 ft.  
Depth to bedrock \_\_\_\_\_ ft.  
Hole size (Also include reamed zones)  
• 10 inches from 0 to 58 ft.  
• 6 1/2 inches from 58 to 140 ft.  
Casing size (I.D.) and material  
• 6 1/4 inches from +1 to 58 ft.  
Material steel  
Wt. per foot 13.16 or wall thickness .188 in.  
• \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ ft.  
Material \_\_\_\_\_  
Wt. per foot \_\_\_\_\_ or wall thickness \_\_\_\_\_ in.  
84 • 5 1/4 inches from 56 to 140 ft.  
Material steel well casing - As Lined - 5 1/4" slot, from 10' to 125'  
Wt. per foot \_\_\_\_\_ or wall thickness \_\_\_\_\_ in.  
Screen size and mesh for each zone (where applicable)  
• \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ ft.  
Mesh size \_\_\_\_\_ Type \_\_\_\_\_  
• \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ ft.  
Mesh size \_\_\_\_\_ Type \_\_\_\_\_  
• \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ ft.  
Mesh size \_\_\_\_\_ Type \_\_\_\_\_  
• \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ ft.  
Mesh size \_\_\_\_\_ Type \_\_\_\_\_  
Gravel pack  
• From \_\_\_\_\_ to \_\_\_\_\_ ft.  
• From \_\_\_\_\_ to \_\_\_\_\_ ft.

2. WATER DATA • Water temperature \_\_\_\_\_ of

Static water level (unpumped level-measured) 75 ft.  
Stabilized measured pumping water level 100 ft.  
Stabilized yield 12 gpm after \_\_\_\_\_ hours  
Natural Flow: Yes \_\_\_\_\_ No  flow rate \_\_\_\_\_ gpm  
Comment on quality \_\_\_\_\_

3. WATER ZONES: From 110 To 125

From \_\_\_\_\_ To \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
From \_\_\_\_\_ To \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

4. USE DATA:

Type of use: Drinking  Livestock Watering \_\_\_\_\_  
Irrigation \_\_\_\_\_ Food processing \_\_\_\_\_ Household \_\_\_\_\_  
Manufacturing \_\_\_\_\_ Fire safety \_\_\_\_\_ Cleaning \_\_\_\_\_  
Recreation \_\_\_\_\_ Aesthetic \_\_\_\_\_ Cooling or heating \_\_\_\_\_  
Injection \_\_\_\_\_ Other \_\_\_\_\_  
Type of facility: Domestic  Public water supply \_\_\_\_\_  
Public institution \_\_\_\_\_ Farm \_\_\_\_\_ Industry \_\_\_\_\_  
Commercial \_\_\_\_\_ Other \_\_\_\_\_

5. PUMP DATA: Type \_\_\_\_\_ Rated H.P. \_\_\_\_\_

Intake depth \_\_\_\_\_ Capacity \_\_\_\_\_ at \_\_\_\_\_ head

6. WELLHEAD: Type well seal \_\_\_\_\_

Pressure tank \_\_\_\_\_ gal. Loc. \_\_\_\_\_  
Sample tap \_\_\_\_\_ Measurement port \_\_\_\_\_  
Well vent \_\_\_\_\_ Pressure relief valve \_\_\_\_\_  
Gate valve \_\_\_\_\_ Check valve (when required) \_\_\_\_\_  
Electrical disconnect switch on power supply \_\_\_\_\_

7. DISINFECTION: Well disinfected \_\_\_\_\_ yes \_\_\_\_\_ no \_\_\_\_\_

Date \_\_\_\_\_ Disinfectant used \_\_\_\_\_  
Amount \_\_\_\_\_ Hours used \_\_\_\_\_

8. ABANDONMENT (where applicable) • yes \_\_\_\_\_ no \_\_\_\_\_

Casing pulled yes \_\_\_\_\_ no \_\_\_\_\_ not applicable \_\_\_\_\_  
Plugging grout From \_\_\_\_\_ to \_\_\_\_\_ material \_\_\_\_\_  
pump installed through Clay Arnold

Grout  
• From 0 to 20 ft. Type Neat Cement  
- Installed Watertight Cap & Reamed Adapter  
- suggest setting pump @ approx 120'  
- plugged 10 G.P. @ 120' on 3/5/87

3/6/87

L.F. Tolson

Owner Charles E. Kelley Arnold  
Spring Hill #1

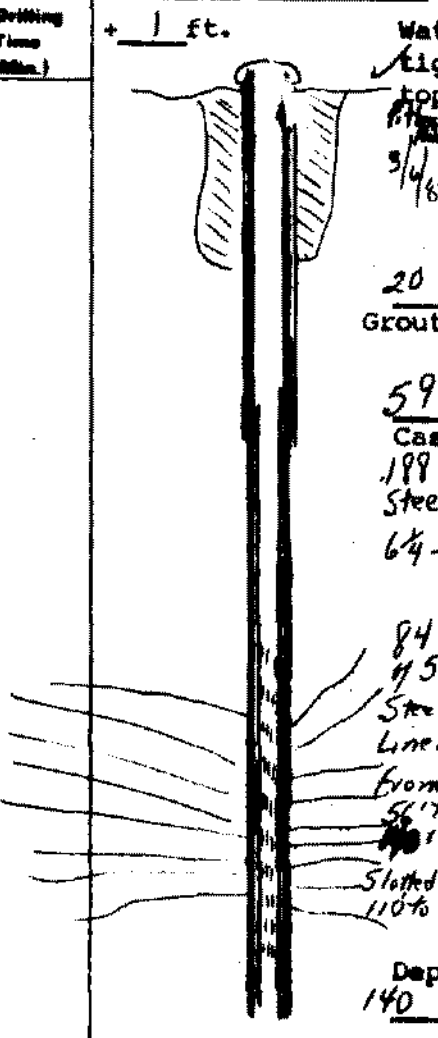
9. State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for or well made in the State intended for water, or any other non-exempt well. This information must be submitted whether the well is complete, on standby, or abandoned. Information required includes: an accurately and completely prepared water well completion report, full data from any logs for pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion report for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)

DEPTH (feet)		TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)	REMARKS (water, caving, cavities, broken, core, shot, (etc.))
From	To		
0	10	red clay	
10	25	yellow sand	
25	40	sand & gravel	
40	58	sand stone (soft)	
58	95	sand stone hard	
95	110	blue clay	steel liner inserted & slotted
110	125	sand & gravel	
125	140	brown clay	

Approximate Water Zones  
110-125

11. 12. DIA. GRAM OF WELL CONSTRUCTION (with dimensions)



13. Well lot dedicated? \_\_\_\_\_; Size \_\_\_\_\_ ft. X \_\_\_\_\_ ft.; Well house? \_\_\_\_\_  
Distance to nearest pollutant source \_\_\_\_\_ ft., Type \_\_\_\_\_  
Distance to nearest property line \_\_\_\_\_ ft., Building \_\_\_\_\_ ft.

14. WATER SERVICE PIPE: Checked under \_\_\_\_\_ p.s.i. for \_\_\_\_\_ minutes. Pipe size \_\_\_\_\_ inches, Material \_\_\_\_\_  
Installer \_\_\_\_\_  
Date \_\_\_\_\_

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

State Water Control Board Regional Offices

Valley Reg. Off.  
116 North Main Street  
P. O. Box 268  
Bridgewater, Va. 22812  
703-628-2595

Piedmont Reg. Off.  
4010 West Broad Street  
P. O. Box 6616  
Richmond, Va. 23230  
804-257-1006

Southwest Reg. Off.  
408 East Main Street  
P. O. Box 476  
Abingdon, Va. 24810  
703-628-5183

Tidewater Reg. Off.  
287 Pembroke Office Park  
Suite 310 Pembroke No. 2  
Va. Beach, Va. 23462  
804-499-8742

West Central Reg. Off.  
Executive Park  
3312 Peters Creek Road  
Roanoke, Va. 24019  
703-982-7432

Northern Virginia Reg. Off.  
5515 Cherokee Avenue  
Suite 404  
Alexandria, Va. 22312  
703-750-9111

Signature Charles E. Kelley Arnold, Date 3/6/89  
(Well Driller or authorized person) License No. \_\_\_\_\_