

**COMMONWEALTH OF VIRGINIA**  
**WATER WELL COMPLETION REPORT**

*Wm. H. Smith*  
BWCN No. 659-7778  
25C-3-54

Water Control Board  
Box 11143  
2541 North Hamilton St.  
Richmond, Va. 23230

(Certification of Completion/County Permit)

*Ross Brothers*  
*Reg. Reg*  
P.O. Box 352  
Massachusetts, Va. 22463  
659-71778  
County/City Stamp

County/City Stafford

• Virginia Plane Coordinates

N \_\_\_\_\_  
E \_\_\_\_\_  
Latitude & Longitude \_\_\_\_\_  
N \_\_\_\_\_  
W \_\_\_\_\_

• Topo. Map No. 183A  
• Elevation \_\_\_\_\_ ft.  
• Formation \_\_\_\_\_  
• Lithology \_\_\_\_\_  
• River Basin \_\_\_\_\_  
• Province \_\_\_\_\_  
• Type Logs D. L.  
• Cuttings N. A.  
• Water Analysis \_\_\_\_\_  
• Aquifer Test \_\_\_\_\_

• Owner - Fox Sale -

• Well Designation or Number \_\_\_\_\_  
Address \_\_\_\_\_  
Phone \_\_\_\_\_

• Drilling Contractor John L. Danielson, Jr., Inc.  
Address 4616 Hood Drive  
Fredericksburg, Virginia 22401  
Phone (703) 898-6025

SWCB Permit \_\_\_\_\_  
County Permit \_\_\_\_\_

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

For Office Use

189-89-30e 12/15/94 Richard Smith

Tax Map I.D. No. 25-49-3-54  
Subdivision Blake Farms  
Section 3  
Block \_\_\_\_\_  
Lot 54  
Class Well I \_\_\_\_\_ IIA \_\_\_\_\_  
IIB  IIA \_\_\_\_\_ IIB \_\_\_\_\_  
IIC \_\_\_\_\_ IID \_\_\_\_\_ IIE \_\_\_\_\_

WELL LOCATION: \_\_\_\_\_ (feet/miles \_\_\_\_\_ direction) of \_\_\_\_\_  
and \_\_\_\_\_ (feet/miles \_\_\_\_\_ direction) of \_\_\_\_\_  
(If possible please include map showing location marked) # 649

Date started 4/4/90 • Date completed 4/5/90 Type rig ALL ROTARY

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

• Total depth 200 ft.  
• Depth to bedrock 127 ft.

• Hole size (Also include reamed zones)

|   |
|---|
| • <u>10</u> inches from _____ to <u>127</u> ft.         |
| • <u>6 1/2</u> inches from <u>127</u> to <u>200</u> ft. |
| • _____ inches from _____ to _____ ft.                  |

• Casing size (I.D.) and material

|  |                                    |
|--|------------------------------------|
| • <u>6 1/2</u> inches from <u>+1</u> to <u>127</u> ft. | Material <u>P.V.C. Well Casing</u> |
| Wt. per foot _____ or wall thickness <u>SDR 27</u> in. |                                    |
| • <u>4</u> inches from <u>120</u> to <u>160</u> ft.    | Material <u>P.V.C. Well Casing</u> |
| Wt. per foot _____ or wall thickness <u>Sch 40</u> in. |                                    |
| • <u>4</u> inches from <u>180</u> to <u>200</u> ft.    | Material <u>P.V.C. Well Casing</u> |
| Wt. per foot _____ or wall thickness <u>Sch 40</u> in. |                                    |

• Screen size and mesh for each zone (where applicable)

|   |                                       |
|---|---------------------------------------|
| • <u>4</u> inches from <u>160</u> to <u>180</u> ft. | Mesh size <u>.016</u> Type <u>PVC</u> |
| • _____ inches from _____ to _____ ft.              |                                       |
| • _____ inches from _____ to _____ ft.              |                                       |
| • _____ inches from _____ to _____ ft.              |                                       |
| • _____ inches from _____ to _____ ft.              |                                       |

• Gravel pack

• From \_\_\_\_\_ to \_\_\_\_\_ ft.  
• From \_\_\_\_\_ to \_\_\_\_\_ ft.

• Grout Pressure Grouting

• From 0 to 50 ft. Type Neat Cement 4/10/90  
• From \_\_\_\_\_ to \_\_\_\_\_ ft. Type \_\_\_\_\_

approximate drawdown 50 feet.

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

• Static water level (unpumped level-measured) 70 ft.  
• Stabilized measured pumping water level 120 ft.  
• Stabilized yield 5 gpm after 1 hours  
Natural Flow: Yes \_\_\_\_\_ No  flow rate \_\_\_\_\_ gpm

Comment on quality \_\_\_\_\_

3. WATER ZONES: From 169 To 170

|                     |                     |
|---------------------|---------------------|
| 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 \_\_\_\_\_  
(Suggest keeping torque arrestors out of 4" liner.)

*Installed water tight top*  
*suggest setting pump @ approx. 140'*  
*you will encounter @ approx. 120'*  
*OVER*

Ross Brothers / Ken Ross  
 Owner: Becker Farm # 54 (For Sale)  
Stafford # 649

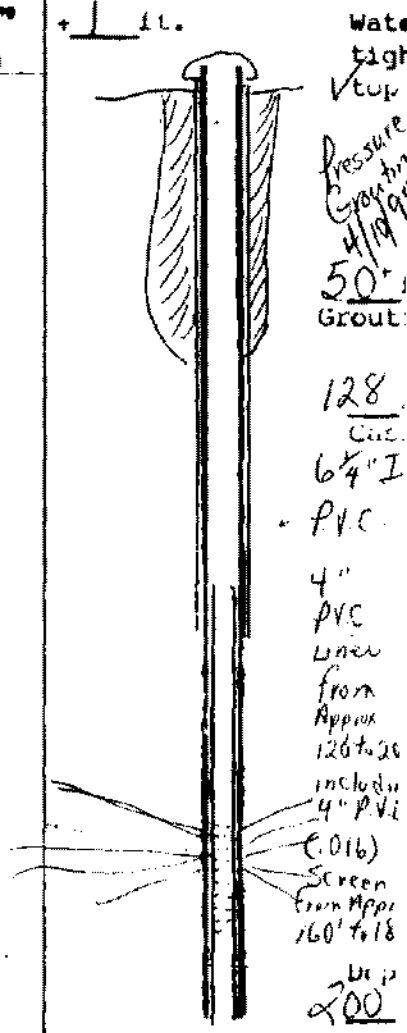
9. State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well which is intended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. Information required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping cuttings taken at ten foot intervals (unless exemption is issued), the results of any chemical analyses, and copies of any geophysical logs. Gas 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<br>(color, material, fossils, hardness, etc.) | REMARKS<br>(water, casing, cavities, broken, core, shot, etc.) |
|--------------|-----|--|--|
| From         | To  |  |  |
| 0            | 10  | Red clay   |  |
| 10           | 60  | Micaceous formation / Red  |  |
| 60           | 90  | Micaceous formation / Brown  |  |
| 90           | 127 | soft brown shale   | → inserted liner   |
| 127          | 160 | hard brown shale   |  |
| 160          | 200 | hard blue rock   |  |

Approximate  
Water Zones  
167 to 170

11. DIAGRAM 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.f. for \_\_\_\_\_ minutes. Pipe size \_\_\_\_\_ inches, Material \_\_\_\_\_  
 Installer \_\_\_\_\_  
 Date \_\_\_\_\_

- State Water Control Board Regional Offices**
- Valley Reg. Off.  
116 North Main Street  
P. O. Box 288  
Bridgewater, Va. 22812  
703 828 7593
  - Southwest Reg. Off.  
408 East Main Street  
P. O. Box 476  
Abingdon, Va. 24210  
703 628 5183
  - West Central Reg. Off.  
Executive Park  
3318 Peters Creek Road  
Ryanoke, Va. 24019  
708-982-7482
  - Piedmont Reg. Off.  
4018 West Broad Street  
P. O. Box 6416  
Richmond, Va. 23230  
804-257-1006
  - Tidewater Reg. Off.  
287 Pembroke Office Park  
Suite 310 Pembroke No. 2  
Va. Beach, Va. 23462  
804 499 8742
  - Northern Virginia Reg. Off.  
3515 Cherokee Avenue  
Suite 404  
Alexandria, Va. 22312  
703 750 9111

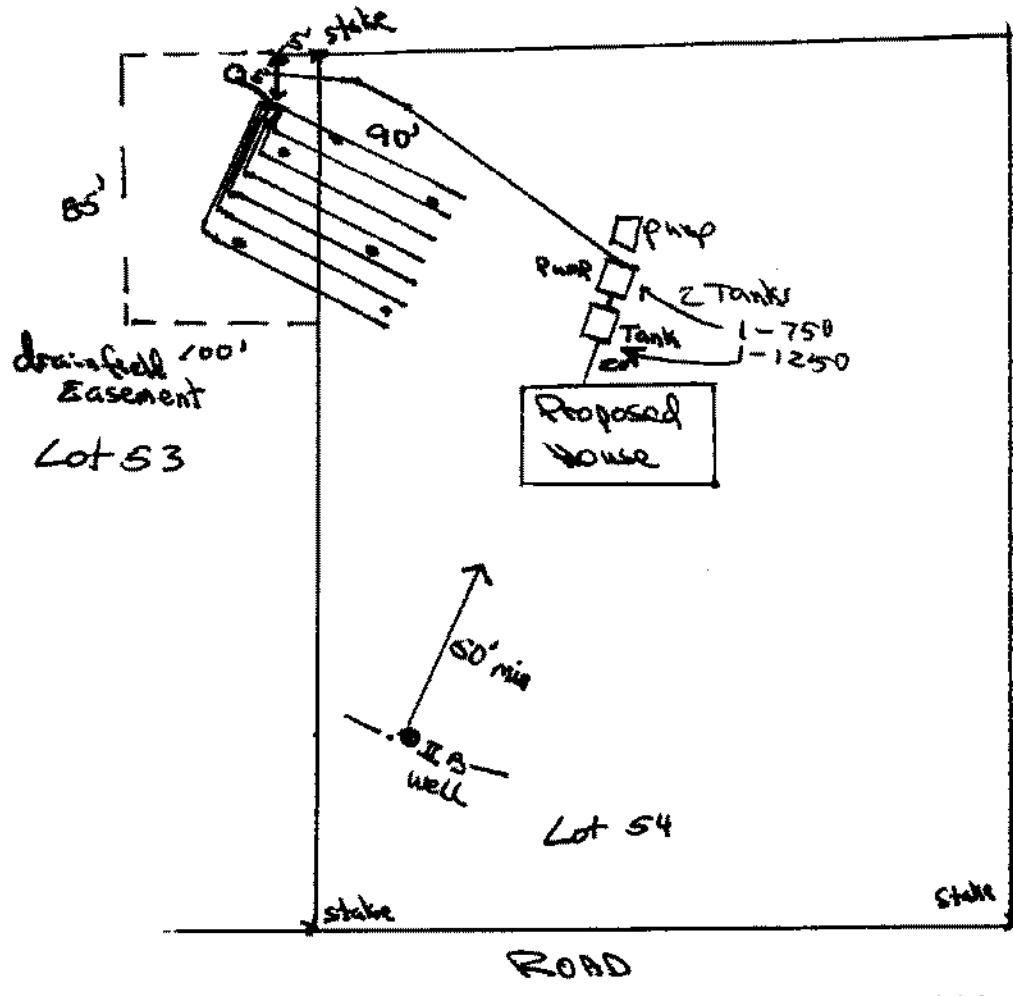
15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules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

Signature: Ken T. Daniels Date: 4/10/90  
 (Well driller or authorized person) License No. \_\_\_\_\_

**Schematic drawing of sewage disposal system and topographic features.**

Show the lot lines of the building lot and building site, sketch of property showing any topographic features which may impact on the design of the system, all existing and/or proposed structures including sewage disposal systems and wells within 100 feet of sewage disposal system and reserve area. The schematic drawing of the sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be located on the same lot show all sources of pollution within 100 feet.

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.



- \* Drawing not to scale.
- \* Permit void if house location interferes with proposed drainfield location.
- \* Drainfield to be 100'+ from all Class III wells and 50'+ from all Class II wells.
- \* Remove all trees within 10' of drainfield.
- \* Install (7) 90' lines in 36" wide ditches following land contours.
- \* Install septic tank and distribution box with 18 to 24" maximum cover.
- \* Install ditches 4" deep.
- \* Follow OSHA Codes.
- \* Header lines to extend 24" into ditches.
- \* Place untreated building paper over gravel in ditches.
- \* Designed for basement plumbing? Yes No *(Left Pump by Regulator)*
- \* Pump septic tank every 3 to 5 years. *may pump by Regulator*
- \* Keep driveway off drainfield system.
- \* Divert roof drains away from drainfield.
- \* Install Class SB well 50' from all sources of contamination.
- \* Well shall not be located in a low area.
- \*\*\* PUMP SYSTEM REQUIREMENTS \*\*\*
- \* Install check valve at pump and elbow in basin.
- \* Pump to deliver 350 gallons per cycle *(15" drawdown for a 750 gallon tank).*
- \* Install alarm panel with audio and visual signals in dwelling.
- \* Contractor to supply pump specifications.
- \* Building inspector to check all wiring.
- \* Sanitarian to observe pump operation.
- \* Well curbing to be used for catch basin.

The sewage disposal system is to be constructed as specified by the permit  or attached plans and specifications .

This sewage disposal system construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: Dec 13, 1969 Issued by: [Signature]  
 Date: 2-8-50 Reviewed by: [Signature]  
 Sanitarian  
 Supervisory Sanitarian

This Construction Permit Valid until June 1983

If FHA or VA financing

Reviewed by Date \_\_\_\_\_ Date \_\_\_\_\_  
 Supervisory Sanitarian Regional Sanitarian