

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-4757  
C- 161

MAILING ADDRESS:  
Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES  
JAMES L. CALVER, COMMISSIONER  
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

OWNER: American Central Corporation Mailing Address: c/o Jon Roan 7448 Idlewood Road

TENANT: Sherwood Forest #2 Mailing Address: Falls Church, Virginia 22043

DRILLER: Douglas Drilling Co., Inc. Mailing Address: Box 498, Warsaw, Va. 22572

WELL LOCATION: County Northumberland Approx. 0.2 <sup>feet</sup>/<sub>miles</sub> East (direction) ~~SK~~  
on Berkshire Drive from Rt 647 and 200 <sup>feet</sup>/<sub>miles</sub> North (direction) of Berkshire Drive

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: - DATE COMPLETED: 8 December 1976

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 804 feet

WATER LEVEL: Stands 22 feet below surface OR  
has NATURAL flow of - gallons per minute.

YIELD TEST: Method 15 HP test pump  
Drawdown 251 feet  
Rate 127 gal. per min.  
Duration 48 hrs., - min.

HOLE SIZE: 11½ inches from 0 to 50 feet  
8½ inches from 50 to 304 feet  
5-7/8 inches from 304 to 804 feet

WATER ZONES: from 670 to 680 feet  
from 693 to 703 feet  
from 754 to 764 feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
#30SU 3 670 680  
#25SU 2½ inches from 693 to 703 feet  
#25SU 2½ inches from 754 to 764 feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

CASE SIZE: 6 inches from 0 to 304 feet  
STANDARD 3 inches from 293-670 680-693  
SCHEDULE 3 inches from xxx feet  
40 BLACK 3 inches from 703-754 764-804  
xx feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other Subdivision

GROUTING: Method tremmie pipe  
Material neat cement Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No X - sample available

PUMP: Type Myers submersible  
Capacity 127 gal per min  
Depth of intake 285 feet

DRILL CUTTINGS SAVED: Yes X No \_\_\_\_\_

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

REMARKS: This is a CLASS II TYPE B Well of materials and construction as per specifications of Virginia Health Department publication "Drilled Wells for Public Water Supply" dated 9 Feb 1970. Drill Cutting Samples delivered to VSWCB, Water Sample for chemical analysis delivered to Va Health Dept Div of Sanitary Engineering, and copies of this report sent to them and Owner.

(LOG OF WELL) OVER

# LOG

FURNISHED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)		REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO			
0'	approx. 10'	tan	fine sand with clay binder	
10'	approx. 60'	tan/grey mix	fine sand with clay binder and varying % shell trace	
60'	approx. 500'	grey	fine sand with clay binder and varying % shell trace	
500'	approx. 600'	grey	fine sand with varying % clay binder and black sand	
600'	approx. 670'	grey	fine sand with clay binder	
670'	approx. 770'	lt grey, green	fine sand with varying % clay binder and sandy SCREEN	
770'	approx. 804'	grey	fine sand with clay binder	
TOTAL DEPTH 804' SHERWOOD FOREST WELL				
Drill Cuttings delivered to VSWCB Richmond office with this report.				
Water Sample gallon for chemical analysis delivered to VHD - Div of Sanitary Engineering, Richmond office with this report.				
Copy of this report delivered to Owner.				

VIRGINIA DIVISION OF MINERAL RESOURCES  
 Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

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C-161  
 Well Repository No.: W-4757

Date rec'd: 01/11/77 Date Processed: 06/14/77

Sample Interval: from 0 to: 804

PROPERTY: American Central Corporation  
 (Sherwood Forest #2)

Number of samples: 70

COMPANY: Douglas Drilling Company

Total Depth: 804'

COUNTY: Northumberland (Sunnybrook)

Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To	From-To
0-11	45-56	90-701	-	-
11-23	56-68	701-13	-	-
23-34	68-79	13-24	-	-
34-46	79-91	24-36	-	-
46-57	91-402	36-47	-	-
57-69	402-14	47-59	-	-
69-80	14-25	59-70	-	-
80-90	25-37	70-82	-	-
92-103	37-48	82-93	-	-
103-15	48-60	93-804	-	-
15-26	60-71	-	-	-
26-38	71-83	-	-	-
38-49	83-94	-	-	-
49-61	94-506	-	-	-
61-72	506-17	-	-	-
72-84	17-29	-	-	-
84-95	29-40	-	-	-
95-207	40-52	-	-	-
207-18	52-63	-	-	-
18-30	63-75	-	-	-
30-41	75-86	-	-	-
41-53	86-98	-	-	-
53-64	98-609	-	-	-
64-76	609-21	-	-	-
76-87	21-32	-	-	-
87-99	32-44	-	-	-
99-310	44-55	-	-	-
310-22	55-67	-	-	-
22-33	67-78	-	-	-
33-45	78-90	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Washed and unwashed samples

(Sherwood Forest #2)  
OWNER : American Central Corporation  
DRILLER: Douglas Drilling Company  
COUNTY : Northumberland (Sunnybrook)

W# : 4757  
C# : 161  
TOTAL DEPTH: 804'  
QUAD : Heathsville

GEOLOGIC LOG

Depth  
(feet)

- 0-11 Clay- very light gray, olive light gray; moderate sand; fine to medium grained; subangular to subrounded; moderately sorted; quartz; some shell fragments; few grains of glauconite; muscovite.
- 11-23 Clay- olive light gray; slightly sandy; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; 2% shell fragments; few black phosphatic fragments; glauconite.
- 23-34 Clay- very light gray, light olive brown; moderate sand; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; few shell fragments; few black phosphatic fragments; muscovite.
- 34-46 As above plus few granules; few grains of glauconite.
- 46-57 As above.
- 57-69 Clay- olive light gray; moderate sand; very fine to fine grained; subangular to subrounded; moderately well sorted; quartz; 2% shell fragments; some muscovite; glauconite.
- 69-80 Clay- olive light gray; moderate sand; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; some shell fragments; glauconite; muscovite.
- 80-92 As above except light olive gray, very light gray.
- 92-103 Clay- olive light gray; moderate sand; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; 7% shell fragments; some muscovite; few black phosphatic fragments; glauconite.
- 103-115 As above except light olive gray; some black phosphatic material.
- 115-126 Clay- olive light gray; slightly sandy; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; 10% shell fragments; muscovite; few grains of glauconite.
- 126-138 As above plus few granules; few black phosphatic fragments.

(Sherwood Forest #2)

OWNER: American Central Corporation

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W#: 4757

Depth  
(feet)

- 138-149 As above except abundant sand; 5% shell fragments; some glauconite.
- 149-161 Clay- light olive gray; moderate sand; very fine to medium grained, few granules; subangular to subrounded; moderately sorted; quartz; 2% shell fragments; some black phosphatic material; glauconite; muscovite.
- 161-172 As above except some heavily stained shell fragments.
- 172-184 As above except very fine to coarse grained, few granules; poorly sorted.
- 184-195 Clay- olive light gray; slightly sandy; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some shell fragments; few grains of glauconite.
- 195-207 As above.
- 207-218 Sand- olive light gray; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 2% shell fragments; some black phosphatic material; glauconite.
- 218-230 As above except 10% shell fragments; bone fragment.
- 230-241 As above except sand and clay; moderate clay; abundant sand; no bone fragment.
- 241-253 Sand- olive light gray; abundant clay; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; 5% shell fragments; few black phosphatic fragments; glauconite.
- 253-264 Clay- olive light gray; abundant sand; very fine to fine grained; subangular to subrounded; moderately well sorted; quartz; some shell fragments; few grains of glauconite.
- 264-276 As above plus few black phosphatic fragments.
- 276-287 As above except 5% shell fragments; few black phosphatic fragments.
- 287-299 Clay- olive light gray; slightly sandy; fine grained; subangular to subrounded; well sorted; quartz; some shell fragments; some glauconite.
- 299-310 As above except very fine to medium grained; moderately sorted; 2% shell fragments.

(Sherwood Forest #2)

OWNER: American Central Corporation

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W#: 4757

Depth  
(feet)

- 310-322 As above plus some spines; muscovite; few black phosphatic fragments; foram.
- 322-333 Clay- olive light gray; slightly sandy; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some shell fragments; few grains of glauconite; few black phosphatic fragments; spines; muscovite.
- 333-345 As above plus forams (inc. Robulus and Siphogenerina).
- 345-356 As above plus diatom.
- 356-368 Clay- olive light gray; slightly sandy; fine to medium grained, few granules, few pebbles; subangular to subrounded; poorly sorted; quartz; some shell fragments; some spines; forams (inc. Robulus, Siphogenerina, and Textularia?); few grains of glauconite.
- 368-379 Clay- olive light gray; moderate sand; fine to coarse grained, few granules, few pebbles; subangular to subrounded; poorly sorted; quartz; 3% shell fragments; few grains of glauconite; spines; forams (inc. Robulus and Nonion).
- 379-391 Sand and clay- olive light gray; moderate clay (some clasts); abundant sand; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; 15% shell fragments; some black phosphatic material; forams common (inc. Siphogenerina, Robulus, and Nonion); muscovite; spines.
- 391-402 Sand- olive light gray; moderate clay; medium to coarse grained, few granules, few pebbles; subangular to subrounded; moderately sorted; quartz; 20% shell fragments; some black phosphatic material; some spines; some glauconite; forams (inc. Nonion, Buccella, Siphogenerina, and Robulus).
- 402-414 Clay- olive light gray; abundant sand; medium grained; subangular to subrounded; well sorted; quartz; some shell fragments; some black phosphatic material; glauconite; forams (inc. Buccella, Robulus, Globulina, and Pyrulina?); few spines.
- 414-425 Sand- yellowish-gray; abundant clay (some clasts)- grayish-orange, light olive gray; fine to coarse grained, some granules, few pebbles; subangular to subrounded; poorly sorted; quartz; 2% shell fragments; some glauconite (black and green); some black phosphatic material; forams scarce (inc. Buccella).
- 425-437 As above except 7% shell fragments; few spines.

(Sherwood Forest #2)

OWNER: American Central Corporation

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Depth  
(feet)

- 437-448 As above except forams rare (inc. Siphogenerina); bone fragment.
- 448-460 Sand- yellowish-gray; moderate clay; medium to coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; 20% shell fragments; 15% glauconite (black, brown, and green); some black phosphatic material; forams rare (inc. Guttulina).
- 460-471 As above except some shell fragments; forams (inc. Robulus and Buccella).
- 471-483 Sand- light olive gray; moderate clay- light olive gray, light grayish-orange; medium to coarse grained, 10% granules; subangular to rounded; moderately sorted; quartz; 25% glauconite (black, brown, and green); some shell fragments; few black phosphatic fragments; forams (inc. Robulus).
- 483-494 Sand- olive light gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite; few shell fragments; forams common (inc. Robulus, Buccella, and Nonion); muscovite.
- 494-506 As above except forams (inc. Robulus and Buccella).
- 506-517 As above except 50% glauconite; forams (inc. Robulus, Buccella, and Globulina).
- 517-529 Sand- olive light gray; moderate clay; medium to coarse grained; rounded; well sorted; 60% glauconite; quartz; few shell fragments; forams (inc. Robulus, Nodosaria, and Dentalina); muscovite; pyrite.
- 529-540 As above except 50% glauconite; forams common (inc. Robulus, Dentalina, Pyrulina, Nodosaria, Discorbis?, and Globulina?).
- 540-552 Sand- olive light gray; moderate clay; medium grained, some coarse grains; rounded; well sorted; 75% glauconite (black and green); quartz; few shell fragments; forams scarce (inc. Robulus).
- 552-563 As above except forams (inc. Robulus, Dentalina, and Buccella).
- 563-575 Sand- olive light gray; moderate clay; fine to medium grained, some coarse grains; rounded; moderately well sorted; 70% glauconite (black, green); quartz; forams (inc. Robulus and Buccella).
- 575-586 As above except forams (inc. Robulus and Nodosaria). Note: washed sample missing.

(Sherwood Forest #2)

OWNER: American Central Corporation

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W#: 4757

Depth  
(feet)

- 586-598 As above.
- 598-609 Clay and sand- yellowish-gray; abundant clay (some clasts); moderate sand; fine to coarse grained; subangular to rounded; moderately sorted; glauconite 70% of sand sized fraction; quartz; few spines; foram.
- 609-621 As above except sand and clay; moderate clay; abundant sand; few shell fragments.
- 621-632 Sand- olive light gray; moderate clay; medium to coarse grained; rounded; moderately well sorted; 65% glauconite; quartz; some shell fragments; forams (inc. Robulus).
- 632-644 Sand- greenish-gray; moderate clay- greenish-gray, moderate reddish-orange; medium to coarse grained, some granules; subangular to rounded; moderately sorted; 40% glauconite (green and black); 35% shell fragments; quartz; forams rare (inc. Nodosaria).
- 644-655 As above except 40% shell fragments.
- 655-667 Sand- light reddish-orange; moderate clay; medium to coarse grained, some fine grains, some granules; subangular to subrounded; moderately sorted; quartz; 10% glauconite (black and green); feldspar; some muscovite; few shell fragments.
- 667-678 As above except grayish-yellow green; fine to medium grained, some coarse grains.
- 678-690 As above plus few pebbles.
- 690-701 Sand- grayish-yellow green; moderate clay; medium to coarse grained, some fine grains, some granules; subangular to subrounded; moderately sorted; quartz; 17% glauconite (black and green); feldspar; muscovite.
- 701-713 As above plus few pebbles; 10% glauconite.
- 713-724 Sand- grayish-yellow green; slightly clayey; fine to coarse grained, some granules, some pebbles; subangular to subrounded; moderately sorted; quartz; 12% glauconite (black, green); feldspar; muscovite; few shell fragments.
- 724-736 As above except 7% granules; some shell fragments.

(Sherwood Forest #2)

OWNER: American Central Corporation

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Depth  
(feet)

- 736-747 Sand- light olive gray; moderate clay; medium grained to granular, some fine grains, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 7% glauconite (black and green); few shell fragments; muscovite.
- 747-759 As above.
- 759-770 Sand- light olive gray; moderate clay- light olive gray, light reddish-brown, dark yellowish-orange; fine to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; 7% glauconite (black and green); muscovite; few shell fragments; forams rare (inc. Buccella).
- 770-782 Sand- olive light gray; abundant clay- olive light gray, dark yellowish-orange; medium to coarse grained, some fine grains, 5% granules; subangular to subrounded; moderately sorted; quartz; feldspar; 10% glauconite; muscovite; few shell fragments.
- 782-793 Sand- light olive gray; slightly clayey; medium to coarse grained, few granules; subangular to rounded; moderately well sorted; quartz; feldspar; 20% glauconite (black and green); few shell fragments.
- 793-804 As above except fine to coarse grained, 5% granules; poorly sorted.

Logged by: Michael T. Currie