

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 4775
C# 162

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: Bay Quarter Shores #2 Mailing Address: Falls Church, Virginia 22043

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

WELL LOCATION: County Northumberland Approx. 300 feet miles NE (direction) of
intersection of State Routes 751 & 1403 at Bay Quarter.
and miles (direction) of

(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: 24 December 1976

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 649 feet

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

YIELD TEST: Method 15 HP test pump HOLE SIZE: 11 1/2 inches from 0 to 50 feet
Drawdown 92 feet 8 1/2 inches from 50 to 306 feet
Rate 213 gal. per min. 5 7/8 inches from 306 to 649 feet
Duration 48 hrs., min. SCREEN SIZE: 3 inches from 623 to 643 feet

WATER ZONES: from 623 to 643 feet inches from to feet
from to feet inches from to feet
from to feet

WATER: Color Taste
Odor Temp. °F
CASE SIZE: 6 inches from 0 to 306 feet
STANDARD SCHEDULE 3 inches from 297 to 623 feet
40 BLACK T&C 3 inches from 643 to 649 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
PUMP: Type submersible
Capacity 213 gal. per min
DRILL CUTTINGS SAVED: Yes No
Depth of intake 280 feet

(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. 1976

Drill Cutting Samples delivered to VSWCB, Water Sample for chemical analysis delivered to Froehling & Robertson test laboratory, and copies of this report sent to VHDBSE and Owner.

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/orange	fine sand with clay binder,	lens of white sand
10'	approx. 60'	grey	fine sand with clay binder	
60'	approx. 250'	blue/grey	fine sand with varying % clay binder, shell, and sand	
250'	approx. 330'	green/olive	fine sand with varying % clay binder, shell, and sand	
330'	approx. 410'	green	fine sand, green rocky shell bed with varying % sand	
410'	approx. 500'	blue/gray	fine sand with varying % black sandy clay binder, black sand, and shell	
500'	approx. 590'	black	fine sand, black sand with varying % black sandy clay binder	
590'	approx. 620'	green/white	fine sand, medium and coarse sand with green/white clay binder	
620'	approx. 645'	white	fine sand, medium and coarse sands. SCREEN	
645'	approx. 649'	grey	fine sand with clay binder	
TOTAL DEPTH 649'				
Drill Cuttings delivered to VSWCB Richmond office with this report.				
Water Sample gallon for chemical analysis delivered to Froehling & Robertson testing laboratory.				
Copy of this report delivered to Owner, and Va. Health Dept., Bureau of Sanitary Engineering, Richmond Office.				

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

INTERVAL SHEET

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Well Repository No.: W- 4775
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Date rec'd: 1/11/77 Date Processed: 6/22/77

Sample Interval: from 0 to: 649

PROPERTY: American Central Corp. (Bay Quarters Shores #2) Number of samples: 62

COMPANY: Douglas Drilling Co.

Total Depth: 649'

COUNTY: Northumberland (Middletons Corner)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	314-324	629-639	-	-
10-21	324-335	<u>639-649</u>	-	-
21-31	335-345	-	-	-
31-42	345-356	-	-	-
42-52	356-366	-	-	-
52-63	366-377	-	-	-
63-73	377-387	-	-	-
73-84	387-398	-	-	-
84-94	398-408	-	-	-
94-105	408-419	-	-	-
105-115	419-429	-	-	-
115-125	429-440	-	-	-
126-136	440-450	-	-	-
136-147	450-461	-	-	-
147-157	461-471	-	-	-
157-165	471-482	-	-	-
165-178	482-492	-	-	-
178-189	492-503	-	-	-
189-199	503-513	-	-	-
199-210	513-524	-	-	-
210-220	524-534	-	-	-
220-231	534-545	-	-	-
231-241	545-555	-	-	-
241-252	555-566	-	-	-
252-262	566-576	-	-	-
262-273	576-587	-	-	-
273-283	587-597	-	-	-
283-294	597-608	-	-	-
294-304	608-618	-	-	-
304-214	618-629	-	-	-

Washed & unwashed samples.

Owner: American Central Corp.
Driller: Douglas Drilling
County: Northumberland (Sunny Bank)

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C# 162
Total Depth: 649'
Quad: Heathsville
Elev: 25'

Depth
(feet)

WELL LOG

- 0-10 Sand - Dusky yellow (5y 6/4); moderate clay; medium to coarse, subangular, poorly sorted; Lignite.
- 10-20 Sand - Dusky yellowish (5y 6/4); moderate clay; medium to granule with some pebbles, subangular and rounded, poorly sorted; Lignite.
- 21-31 Clay - Light olive gray (5y 6/1); abundant sand; fine to medium, subangular, poorly sorted; wood fragments; mica.
- 31-63 Clay - Light olive gray (5y 5/2); sparse sand; fine to medium, subangular, poorly sorted; mica.
- 63-94 Clay - Light olive gray (5y 5/2); abundant sand; fine to medium, subangular, well sorted; mica.
- 94-126 Clay - Light olive gray (5y 5/1); abundant sand, fine to medium, subangular, well sorted; mica, 94-105' sparse mica.
- 126-157 Sand - Light olive gray (5y 5/1); abundant clay; fine to medium, subangular, well sorted; mica; very rare shell fragments at 126-147'.
- 157-189 Clay - Light olive gray (5y 5/1); abundant sand, fine to medium, subangular, well sorted.
- 189-210 Clay - Light olive gray (5y 6/1); abundant sand; fine to medium, subangular, well sorted.
- 210-231 Clay - Light olive gray (5y 6/1); abundant sand; medium to coarse, subangular, moderate sorting.
- 231-294 Clay - Light olive gray (5y 6/1); abundant sand; medium to fine, subangular, moderate sorting.
- 294-335 Sand - Light olive gray (5y 6/1); abundant clay; fine to coarse, subangular, moderate; 5% large shell fragments; 324-335' sparse clay with few glauconite grains.
- 335-345 Limestone - Light olive gray (5y 6/1); bioclastic lime stone with a few grains glauconite and sand; shell imprints.
- 345-356 Sand - Light olive gray (5y 6/1); fine to granule, subangular, poor sorting; very rare glauconite; 40% shell fragments.

<u>Depth (feet)</u>	
356-366	Limestone - Light olive gray (5y 6/1); bioclastic; abundant sand, shell fragment and few glauconite grains.
366-398	Gravel, Shell - Light olive gray (5y 6/1); 60% shell fragments; very sparse clay; sand, fine to granule with few pebbles, subangular, poorly sorted; 2% glauconite, brown; clay coating shell fragments.
398-408	Gravel, Shell - Light olive gray (5y 6/1); 60% shell fragments, finely ground; sand, fine to granule, subangular, poorly sorted; 30% glauconite; Ostracods.
408-419	Gravels - Light and dark brown; fine to pebble, subangular and rounded, poorly sorted; 40% glauconite; 40% finely ground shell fragments, clay coated.
419-429	Sand, Glauconitic - Light and Dark gray; 60% glauconite, green and brown, medium grained; very sparse clay; moderate sand, fine to pebble, subangular and rounded; 10% fine shell fragments.
429-440	Gravel, Shell - Light olive gray (5y 6/1); 50% shell fragments; very sparse clay; fine to very coarse, subangular, poor sorting; 30% glauconite, green and brown.
440-461	Sand, Glauconitic - Olive gray (5y 3/1); 80% glauconite; very sparse clay; sparse sand; fine to very coarse with some pebbles, subangular, rounded; poorly sorted; 450-461' very sparse sand.
461-482	Sand, Glauconite - Greenish black (5g 2/1); 98+% glauconite; very sparse clay; very sparse sand; fine to very coarse, subangular, poorly sorted; Foram- <u>Marginulina</u> , <u>Nodosaria</u> .
482-492	Clay - Light olive gray (5y 6/1); sparse sand; fine to very coarse, subangular, poorly sorted; 30% glauconite; mica.
492-503	No Sample.
503-523	Clay - Light olive gray (5y 6/1); sparse sand; fine to very coarse, subangular, poorly sorted; few glauconite; 514-523' 25% glauconite; mica.
524-534	Clay - Light olive gray (5y 4/1); abundant sand, fine to very coarse, subangular, poorly sorted; 20% glauconite; Forams- <u>Robulus</u> ; mica.
534-545	No Sample.

Owner:
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American Central Corp.

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Depth
(feet)

- 545-566 Sand, Glauconitic - Light and dark green; 60% glauconite; sparse sand; fine to very coarse, subangular, poorly sorted; 15% shell fragments; - Bryozoa; Forams - Nodosaria.
- 566-576 Sand, Glauconitic - Light and dark green; 50% glauconite; sparse sand; abundant clay; fine to very coarse, subangular, poorly sorted; very rare shell fragments - Bryozoa; Forams.
- 576-586 Sand, Glauconitic - Olive gray (5y 3/1); 80% glauconite; sparse clay; sparse sand; fine to granule, subangular, poorly sorted; 1% shell fragments; - Bryozoa; Forams.
- 587-597 Sand - Light olive gray (5y 6/1); abundant clay; medium with some pebbles; subangular, moderate sorting; 10% glauconite; mica.
- 597-608 Sand - Light Olive gray (5y 6/1); moderate clay; fine to granule, subangular, poorly sorted; 3% glauconite; garnet.
- 608-639 Sand - Light olive gray (5y 6/1); sparse to very sparse clay; fine to granule; subangular, angular, poorly sorted; very rare glauconite; garnet; feldspar.
- 639-649 Sand - Light olive gray (5y 6/1); moderate clay; fine to medium, subangular, well sorted; very rare glauconite; mica; feldspar; garnet.

Logged by: J. K. Polzin
August 29, 1980