

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B-3667  
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Southern Properties, Inc #2 Mailing Address: Box 13006, Roanoke, VA. 24030

TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: P. O. Box 27186  
Richmond, VA. 23261

WELL LOCATION: County New Kent Approx. 200 <sup>feet</sup>~~yards~~ south (direction) of

Int. 60-1002 and 200 <sup>feet</sup>~~yards~~ south (direction) of Well #1

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

DATE STARTED: 10/07/75 DATE COMPLETED: 10/23/75

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 250 feet

WATER LEVEL: Stands 88 feet below surface OR

has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Pump

Drawdown 6 1/4 feet

Rate 135 gal. per min.

Duration 48 hrs., \_\_\_\_\_ min.

HOLE SIZE: 16 inches from 0 to 250 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 6 inches from 198 to 238 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 6 inches from +2 to 198 feet

6 inches from 238 to 245 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 198 to 238 feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_

Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

GROUTING: Method \_\_\_\_\_

Material \_\_\_\_\_ Depth 50 feet

PUMP: Type \_\_\_\_\_

Capacity \_\_\_\_\_ gal. per min

Depth of intake \_\_\_\_\_ feet

WATER ANALYSIS AVAILABLE: Yes X No \_\_\_\_\_

DRILL CUTTINGS SAVED: 25 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: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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

INTERVAL SHEET

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Well Repository No: W#: 4504  
C#: 87

Date rec'd: 11/18/75 Date Processed: 11/18/76

Sample Interval: from: 0 to: 250

PROPERTY: Southern Properties, Inc. #2

Number of samples: 25

COMPANY: Sydnor Hydrodynamics

Total Depth: 250'

COUNTY: New Kent (Lanexa)

Oil or Gas: Water ~~X~~ Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-

Washed & unwashed samples

OWNER: Southern Properties, Inc. #2  
DRILLER: Sydnor  
COUNTY: New Kent

W#: 4504  
C#: 87  
TOTAL DEPTH: 250'  
QUAD.: Walkers

GEOLOGIC LOG

Depth  
(feet)

- 0-10 Sand — dark yellowish orange; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; some feldspar; few grains of glauconite; few opaques.
- 10-20 Sand — pale yellowish orange; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
- 20-30 Sand — very dark yellowish orange; moderate clay; medium grained to granular; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite.
- 30-40 As above except fine to coarse grained.
- 40-50 Sand — pale yellowish orange; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some opaques; feldspar; few grains of glauconite; few shell fragments.
- 50-60 Sand — pale grayish orange; moderate clay-pale yellowish orange, light olive gray; very fine grained; some medium grains, some coarse grains; subangular to subrounded; moderately sorted; quartz; some black phosphatic material; few grains of glauconite; muscovite.
- 60-70 Sand — light olive gray; moderate clay; very fine grained; subangular to subrounded; well sorted; quartz; some glauconite; muscovite.
- 70-80 As above except olive light gray.
- 80-90 As above plus some moderately stained medium to coarse grained quartz.
- 90-100 As above.
- 100-110 Sand — olive light gray; abundant clay; very fine grained, some moderately stained medium grains; subangular to subrounded; moderately well sorted; quartz; some glauconite; muscovite.

Depth  
(feet)

- 110-120 Sand — olive light gray; abundant clay; very fine to fine grained, some slightly stained medium grains, some moderately stained coarse grains; subangular to subrounded; moderately sorted; quartz; some glauconite; few shell fragments; muscovite; forams rare (inc. Nonion).
- 120-130 As above.
- 130-140 As above except some shell fragments.
- 140-150 As above plus few black phosphatic fragments.
- 150-160 Sand and clay — olive light gray; moderate clay; abundant sand; very fine to fine grained; subangular to subrounded; moderately well sorted; quartz; some glauconite; muscovite; few shell fragments.
- 160-170 Sand — olive light gray; slightly clayey; medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; 7% shell fragments; some black phosphatic material; some gypsum crystals; few grains of glauconite.
- 170-180 As above plus some spines; foram.
- 180-190 As above except forams (inc. Bolivina, Uvigerina, Bulimina, and Buccella).
- 190-200 Coquina — light olive gray; slightly clayey; slightly sandy; fine to coarse grained; subangular to subrounded; moderately sorted; 85% sandy limestone and shell fragments; glauconite; quartz; few black phosphatic fragments; pyrite.
- 200-210 Coquina — olive light gray; slightly clayey; near 100% sandy limestone and shell fragments; glauconite; few grains of quartz;
- 210-220 Coquina — light olive gray; slightly clayey; slightly silty; slightly sandy; medium to coarse grained; subangular to subrounded; moderately sorted; 95% sandy limestone and shell fragments; glauconite; quartz; foram.
- 220-230 Coquina — light olive gray; 98% sandy limestone and shell fragments; some silt; glauconite; some very fine grained quartz.
- 230-240 As above.
- 240-250 Coquina — light olive gray; slightly silty; slightly sandy; medium to coarse grained, few granules; subangular to subrounded; moderately sorted; 90% sandy limestone and shell fragments; glauconite; quartz; muscovite.

OWNER: Southern Properties, Inc. #2 -3-

W#: 4504

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-30	30	Bacons Castle Formation	Pleistocene
30-50	20	Moorings "Unit"	Pleistocene
50-190	140	Calvert Formation	Miocene-Eocene
190-250	60	Nanjemoy Formation	Eocene

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
November 6, 1978