

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT C# 155

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: Standard Products, Inc. Mailing Address: Kilmarnock, Virginia

TENANT: _____ Mailing Address: _____

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

WELL LOCATION: County Northumberland Approx. 50 ^{feet} 7/1/99 West (direction) of
Cockrell Creek and 600 ^{feet} 7/1/99 North (direction) of Rt. 737

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

DATE STARTED: 1-8-73 DATE COMPLETED: 2-13-73

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 759' feet

WATER LEVEL: Stands 20 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Turbine
Drawdown 88'6" feet
Rate 510 gal. per min.
Duration 24 hrs., _____ min.

HOLE SIZE: 21 inches from 0 to 60 feet
17-1/4 inches from 60 to 759 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 649 to 654 feet
658 to 668
from 672 to 687 feet
725 to 740
from 747 to 752 feet

SCREEN SIZE: 6 inches from 649 to 654 feet
6 658 668
6 inches from 672 to 687 feet
6 725 740
6 inches from 747 to 752 feet

WATER: Color Clear Taste _____
Odor _____ Temp. _____ °F

CASE SIZE: 18 inches from 0 to 60 feet
8 inches from +2 to 348 feet
6 inches from 348 to 756 feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry X Other _____

GROUTING: Method Pressure
Material Cement Water Depth 60 feet

WATER ANALYSIS AVAILABLE: Yes X No _____

PUMP: Type _____
Capacity _____ gal. per min
Depth of intake _____ feet

DRILL CUTTINGS SAVED: 76 X Yes _____ 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: Electric Log Ran. (by driller)

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	10	yellow clay	
10	30	white sandy clay	
30	40	gray sand clay - some shells	
40	148	tough blue clay	
148	190	tough blue clay - some shells	
190	298	green sand clay - some shells	
298	350	tough green clay	
350	370	white clay, shells and sand streaks	
370	400	soft gray sand, shells with some clay	
400	405	tough gray clay	
405	413	gray sand - shells	
413	416	shell rock	
416	420	hard gray sand, clay and shells	
425	460	tough green clay	
460	465	tough shells and clay	
465	473	shell rock	
473	510	soft sand, clay with some shells	
510	548	tough green clay and sand	
548	570	soft black, gray sand clay	
570	585	rough gray sand clay	
585	600	soft black, gray sand clay	
600	623	soft black sand	
623	630	tough clay, sand and shells	
630	700	gray, blue sand clay	
700	753	white clay, sand and shells	
753	759	white clay	

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

INTERVAL SHEET

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Well Repository No.: W- 3806
 C- 155

Date rec'd: 2-20-73 Date Processed: 9-18-73

Sample Interval: from 0 to:760'

PROPERTY: Standard Products, Inc.

Number of samples: 76

COMPANY: Sydnor

Total Depth: 760'

COUNTY: Northumberland (Fairport)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	300-310	600-610	-	-
10-20	310-320	610-620	-	-
20-30	320-330	620-630	-	-
30-40	330-340	630-640	-	-
40-50	340-350	640-650	-	-
50-60	350-360	650-660	-	-
60-70	360-370	660-670	-	-
70-80	370-380	670-680	-	-
80-90	380-390	680-690	-	-
90-100	390-400	690-700	-	-
100-110	400-410	700-710	-	-
110-120	410-420	710-720	-	-
120-130	420-430	720-730	-	-
130-140	430-440	730-740	-	-
140-150	440-450	740-750	-	-
150-160	450-460	750-760	-	-
160-170	460-470	-	-	-
170-180	470-480	-	-	-
180-190	480-490	-	-	-
190-200	490-500	-	-	-
200-210	500-510	-	-	-
210-220	510-520	-	-	-
220-230	520-530	-	-	-
230-240	530-540	-	-	-
240-250	540-550	-	-	-
250-260	550-560	-	-	-
260-270	560-570	-	-	-
270-280	570-580	-	-	-
280-290	580-590	-	-	-
290-300	590-600	-	-	-

All intervals have both washed and unwashed samples.

Owner: Standard Products, Inc.
Driller: Sydnor
County: Northumberland

W# 3806
C# 155
Total Depth: 760'
Quad: Reedville
Elev: 4'

Depth
(feet)

WELL LOG

- 0-10 Sand - Moderate grayish orange (10yr 6/4); moderate clay; very fine to granule, subangular and rounded, poorly sorted.
- 10-30 Sand - Grayish orange (10yr 7/4); moderate clay in clasts; very fine to granule, subangular and rounded, poorly sorted; 1% glauconite; iron oxide fragment and iron staining on granules.
- 30-40 Sand - Grayish orange (10yr 7/4); sparse clay in clasts; medium to granule, subangular, poor sorting; few glauconite grains; iron staining on granules.
- 40-50 Sand - Pale yellowish brown (10yr 6/2); sparse clay in clasts; medium to granule, subangular, poor sorting; few glauconite grains; iron staining on granules.
- 40-50 Sand - Pale yellowish brown (10yr 6/2); sparse clay in clasts; medium to granule, subangular, poorly sorted; iron staining on granules.
- 50-70 Clay - Pale yellowish brown (10yr 5/2); abundant sand, medium to very coarse with some granules, subangular and rounded, poorly sorted; phosphatic fragments; iron oxide fragments; mica.
- 70-110 Sand - Light olive gray (5y 6/1); sparse clay; medium with some coarse, subangular, well sorted; 8% glauconite, 15% at 100-110'; 25% shell fragments, 8% at 80-90'; Torritella; Ostracod at 90-100'; mica.
- 110-160 Sand - Light olive gray (5y 5/2); abundant clay; medium, subangular, well sorted; 8% glauconite; 20% shell fragments with few at 140-150' and 5% at 150-160'; mica.
- 160-180 Clay - Light olive gray (5y 6/2); medium to coarse, subangular, poorly sorted, few grains; very rare shell fragments; iron stained clasts; magnetite fragments; mica.
- 180-200 Clay - Light olive gray pellets (5y 6/2) and clasts (5y 5/2); medium to coarse, subangular, few grains, poorly sorted; mica.
- 200-220 Sand - Light olive gray (5y 6/2); abundant clay; medium, subangular, well sorted; very rare glauconite; 8% shell fragments; quartzite clast; shark tooth; 210-220' moderate clay; 5% shell fragments.

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<u>Depth (feet)</u>	
220-230	Sand - Light olive gray (5y 6/2); moderate clay in clasts; very fine to medium, subangular, well sorted; very rare glauconite; 5% shell fragments.
230-240	Sand - Light olive gray (5y 6/2); abundant clay in clasts; very fine to medium, subangular, well sorted; very rare glauconite; 1% shell fragments.
240-250	Clay - Light olive gray (5y 6/2); abundant sand; very fine to medium, subangular, well sorted; some <u>Large</u> phosphate nodules and fragments; very rare shell fragments; Echinoderm Madreporite; Ostracod.
250-260	Sand - Light olive gray (5y 5/2); abundant clay; very fine to medium, subangular, well sorted; 30% shell fragments.
260-270	Clay - Light olive gray (5y 5/2); moderate sand; very fine to medium, subangular, well sorted; very rare phosphate fragments; 5% shell fragments; Forams- <u>Siphogenerina</u> , <u>Robulus</u> , <u>Nonion</u> , <u>Marginulina</u> ; Mica.
270-290	Clay - Light olive gray (5y 5/2); few grains, very fine to medium, subangular; poorly sorted sand; Diatoms ; Echinoderm spines; Forams- <u>Robulus</u> , 280-290 Sparse sand
290-300	Sand - Light olive gray (5y 5/2); abundant clay; very fine to medium, subangular, well sorted; 10% shell fragments; Forams.
300-350	Clay - Light olive gray (5y 5/2); moderate sand, sparse at 300-310'; very fine to medium, subangular, poorly sorted; Forams.
350-360	Clay - Light olive gray (5y 5/2); abundant sand; very fine to medium, subangular, poorly sorted; very rare phosphate fragments; bone fragments; very rare shell fragments; Forams.
360-400	Sand - Light olive gray (5y 6/1); abundant clay at 360-70' and very sparse clay 370-400'; very fine to granule, subangular, poorly sorted; 0-1% phosphatic fragments; 10% shell fragments, 25% at 360-370'; Forams; garnet at 390-400'.
400-410	Sand - Light olive gray (5y 6/1); very sparse clay; medium to very coarse, subangular, poorly sorted; very rare phosphatic fragments; 1% shell fragments; Forams.
410-430	Sand - Light olive gray (5y 5/1); moderate clay; medium to very coarse, subangular, poorly sorted; very rare phosphatic fragments; very rare shell fragments, Forams 3% shell fragments at 420-430; garnet; forams .

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<u>Depth (feet)</u>	
430-440	Sand - Light olive gray (5y 5/1); abundant clay; medium to very coarse, subangular, poorly sorted; Ostracods; Forams.
440-460	Sand - Light olive gray (5y 5/1); moderate clay; medium to very coarse with some granules, subangular, poorly sorted; 1% shell fragments; Ostracods; Forams.
460-470	Sand, Glauconitic - Grayish olive green (5gy 3/2); sparse clay; sparse sand medium to granule, subangular, poorly sorted; very rare shell fragments.
470-490	Limestone - Light and dark gray; bioclastic limestone with sparse clay; sparse sand; 50% green and brown glauconite; coral; shell fragments in fragments .
490-450	Sand, Glauconitic - Grayish olive green (5gy 3/2); abundantly coated with calcite; sparse clay; medium to granule with some pebbles, subangular, poorly sorted; 60% glauconite; very rare shell fragments; Forams; Ostracods.
450-520	Sand, Glauconitic - Grayish olive green (5gy 3/2); moderate clay; 70-90% glauconite; medium to granule, subangular, poorly sorted; Forams.
520-530	Sand, Glauconitic - Greenish black (5g 2/1); 90% glauconite, green, medium grained; sparse clay; medium to very coarse, subangular, few grains.
530-550	Sand - Dark greenish gray (5gy 3/1); 55% glauconite; abundant clay; medium to very coarse, subangular, poorly sorted; sparse sand very rare shell fragments; Foram - <u>Robulus</u> .
550-590	Clay - Light olive gray (5y 5/1); moderate sand; very fine to medium, subangular, poorly sorted; glauconite: 550-60' 40%, 560-70' 50%, 570-80' 30%, 580-90' 20%; mica.
590-610	Sand - Green black (5g 2/1); 90% glauconite; very sparse clay; very sparse sand very fine to medium, subangular, very poorly sorted; 1-5% shell fragments; Forams; tooth.
610-620	Sand, Glauconitic - Grayish olive (10y 4/2); 60% glauconite; sparse clay; limestone/glauconite clasts; very fine to very coarse, subangular, poorly sorted; very rare shell fragments.
620-640	Sand - Moderate yellowish gray (5y 6/2); moderate clay; very fine to coarse, angular and subangular, moderate sorting; 10% glauconite.

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Depth
(feet)

- 640-650 Sand - Moderate yellowish gray (5y 6/2); sparse clay in sand clasts; medium to very coarse, subangular, moderate sorting; 15% glauconite; feldspar; garnet.
- 650-660 Sand - Light olive gray (5y 6/1); medium to granule, subangular, poorly sorted; 5% glauconite; feldspar; garnet.
- 660-670 Sand - Light olive gray (5y 6/1); sparse clay in sand clasts; medium to very coarse, subangular, moderate sorting; 10% glauconite; feldspar; garnet.
- 670-700 Sand - Light olive gray (5y 6/1); very sparse to sparse clay of different colors in sand clasts; medium to granule, subangular, poorly sorted; 5% glauconite, 10% at 670-80'; feldspar; garnet.
- 700-720 Sand - Light olive gray (5y 6/2); abundant clay; medium to very coarse, subangular, moderate sorting; 10% glauconite; feldspar; garnet.
- 720-730 Sand - Light olive gray (5y 6/1); medium to coarse, well sorted; 5% glauconite; feldspar; mica.
- 730-750 Sand - Light olive gray (5y 6/1); very fine to granule, subangular, poorly sorted; 3% glauconite; pyrite; feldspar; garnet.
- 750-760 Sand - Yellowish gray (5y 7/2); sparse clay in sand clasts; medium to coarse, subangular, well sorted; 1% glauconite; feldspar; mica.

Logged by: J. K. Polzin
August 27, 1980