

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W - 4395  
C - 170

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: Chesapeake Corporation #F-2 Mailing Address: West Point, VA. 23181

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

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: 2111 Magnolia Street  
Richmond, Virginia 23223

WELL LOCATION: County King William Approx. 42 <sup>feet</sup>/<sub>miles</sub> NE (direction) of  
Route 1119 and 78 <sup>feet</sup>/<sub>miles</sub> SE (direction) of Route 1127

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

DATE STARTED: 04/07/75 DATE COMPLETED: 06/11/75

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 744' feet

WATER LEVEL: Stands 138'6" feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Pump HOLE SIZE: 25 inches from 0 to 390 feet  
Drawdown 60'5" feet \_\_\_\_\_ inches from 390 to 720 feet  
Rate 1401 gal. per min. \_\_\_\_\_ inches from 720 to 744 feet  
Duration 24 hrs., \_\_\_\_\_ min. SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
CASE SIZE: 20 inches from +2 to 390 feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_ 10 inches from 350 to 388 feet  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F \_\_\_\_\_ inches from \_\_\_\_\_ to 717 feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry X Other \_\_\_\_\_  
GROUTING: Method \_\_\_\_\_  
Material \_\_\_\_\_ Depth \_\_\_\_\_ feet

WATER ANALYSIS AVAILABLE: Yes X No \_\_\_\_\_  
DRILL CUTTINGS SAVED: Yes X No \_\_\_\_\_  
Capacity \_\_\_\_\_ gal per min  
Depth of intake \_\_\_\_\_ 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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# 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	17	Yellow Clay	
17	20	Yellow Sand Clay and Gravel	
20	40	Blue Clay and Gravel	
40	44	Blue and Gray Sand Clay	
44	70	Blue Clay and Shells	
70	199	Blue Clay, Sand Streaks, Some Shells	
100	160	Shells, Soft Blue, Green Sand Clay	
160	161	Shell Rock	
161	165	Tough Blue Clay	
165	210	Shell Rock, Black Sand	
210	244	Green, Blue Clay with fine Black Sand	
244	260	Tough Gray Green Clay	
260	280	Pink, Gray Clay	
280	320	Tough Black Sand Clay	
320	350	Pink, Green clay, Some sand.	
350	375	Soft Green Sand, Clay, some sand	
375	400	Tough Green Clay	
400	430	Soft Sand with Gray and Pink Clay	
430	514	Tough White and gray clay with some green and red	
514	520	Soft sand and clay streaks.	
520	540	Tough green, red pink clay	
540	570	Soft gray sand clay	
570	605	Tough green, gray and pink clay	
605	620	Soft sand with gray, green clay	
620	670	Soft sand, gray fine to coarse	
670	675	Gray Clay	
675	715	Soft sand, gray fine to coarse	
715	744	Clay and sand streaks.	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Date rec'd: 7/1/75 Date Processed: 7/7/76

PROPERTY: Chesapeake Corp #F-2

COMPANY: Sydnor Hydrodynamics

COUNTY: King William (W. Point)

Well Repository No.: W- 4395  
 C- 170

Sample Interval: from 0 to: 740

Number of samples: 75

Total Depth: 744

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	<u>730-740</u>	-	-
140-150	440-450	-	-	-
		Washed and unwashed samples.		
150-160	450-460	-	-	-
160-170	460-470	-	-	-
170-180	470-480	-	-	-
180-190	480-490	-	-	-
190-200	490-500	-	-	-
200-210	500-510	-	-	-
210-220 2	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	-	-	-

OWNER: Chesapeake Corp. #F-2  
DRILLER: Sydnor  
COUNTY: King William

W# 4395  
C# 170  
Total Depth: 744'  
Quad: West Point  
Elev: 30'

<u>Depth</u> <u>(feet)</u>	<u>Well Log</u>
0-20	Sand - Dusky yellow (5y 6/4); abundant clay; medium, subangular, well sorted.
20-70	Sand - Light olive gray (5y 5/2); abundant clay; medium, subangular, well sorted; rare glauconite 30-60'; 10% fine shell fragments at 30-40' and 1% at 50-70'; wood fragments 20-30'; mica.
70-90	Clay - Light olive gray (5y 6/1); abundant sand; medium, subangular, well sorted.
90-110	Clay - Light olive gray (5y 5/2); abundant sand, medium with some larger, subangular, well sorted; mica.
110-170	Sand - Light olive gray (5y 5/2); abundant clay; medium to very coarse, subangular, moderate sorting; 40% (110-120') to 50% shell fragments - <u>Venus</u> clams, <u>Mulinia</u> , <u>Venicardia</u> , <u>Turritella</u> , <u>Phacoides</u> , <u>Corbula Seutata</u> , <u>Pectens</u> , <u>Oyster</u> , <u>Glycimeris</u> and 30% at 160-170'; few phosphate fragments/glauconite at 120-170'; Forams at 130-140' and 160-170'; Echinoderm spines and teeth - 130-140' and 160-170'; Ostracods - 150-160'.
170-200	Coquina, Broken - Light olive gray (5y 6/1); depositional limestone with glauconite, shell molds/casts and pyrite; few loose shell fragments; coral; Bryozoa; Ostracods; Forams.
200-210	Sand, Glauconitic - Light and dark gray; 90% glauconite; abundant Coquina finely powdered and in fragments; medium to very coarse, subangular, poor sorting; very sparse clay; Ostracods; Echinoderm spines.
210-220	Sand, Glauconitic; Clayey - Light and dark gray; 80% glauconite; abundant clay; medium to granule, subangular, poor sorting; few shell fragments.
220-240	Sand, Glauconitic; Clayey - Olive gray (5y 3/2); 90% glauconite; abundant clay; medium to granular, subangular and subrounded, poorly sorted; few shell fragments.

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Total Depth: 744'

<u>Depth</u> <u>(feet)</u>	
240-250	Clay, Glauconitic - Light and dark gray; 50% glauconite; abundant sand; fine to very coarse, subangular, poorly sorted; few shell fragments; iron oxide stains.
250-260	Sand, Glauconitic - Olive gray (5y 3/2); 90% glauconite; abundant clay; medium to granule, subangular, poorly sorted.
260-270	Clay, Glauconitic - Light and dark gray; 50% glauconite; abundant sand; fine to very coarse, subangular, poorly sorted; mica.
270-290	Clay - Moderate red (10R 5/2); sparse sand; very fine, subangular, well sorted; very few glauconite; mica.
290-300	Clay, Glauconitic - Light and dark gray; 50% glauconite; abundant sand; fine to very coarse, subangular, poorly sorted; Forams; mica.
300-330	Sand, Glauconitic - Grayish black (5GY 2/1); 90% glauconite; moderate clay with sparse at 310-320'; medium to coarse, subangular, moderate sorting; very rare shell fragments; Forams 300-310.
330-340	Clay - Yellowish gray (5y 7/2); abundant sand; very fine to granule, subangular, poorly sorted; 40% glauconite; very rare shell fragments.
340-350	Clay, Glauconitic - Dusky yellow (5y 6/4); 50% glauconite; abundant sand; very fine to granule, subangular, poorly sorted; very rare shell fragments.
350-370	Clay - Dusky yellow (5y 6/4); abundant sand, very fine to granule, subangular, poorly sorted; 30% to 15% glauconite; mica at 370'.
370-400	Sand - Yellow gray (5y 7/2); abundant clay with different colored clasts at 390-400'; medium to very coarse, to granule at 380-390'; subangular; well sorted at 370-380', moderate at 380-390' and poorly at 390-400'; few glauconite; feldspar; mica.
400-470	Sand - Yellowish gray (5y 7/2); sparse clay 410-430'; medium to granule, with coarse to granular at 450-460' and very fine to very coarse at 460-470'; angular and

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Depth  
(feet)

- subangular, moderate sorting and poor at 460-470'; glauconite variable 8% at 410-420', 5% at 420-430', very few at 430-440'; feldspar; mica; garnet fragment; rutile in quartz - 440-450'.
- 470-480 Clay - Pale yellowish brown (6yr 6/2); abundant sand; very fine to granule, subangular, poorly sorted; 8% glauconite; mica.
- 480-490 Sand - Pale yellowish brown (6yr 6/2); abundant clay; granules, subangular, poor sorting; few glauconite; mica.
- 490-550 Clay - Pale yellowish brown (6yr 6/2); abundant sand; very fine to granule, subangular, poorly sorted; few glauconite in clay - 490-500'; mica.
- 550-570 Sand - Light olive gray (5y 7/1); very sparse clay in small clasts; medium to very coarse, subangular and angular, moderate sorting; few glauconite; feldspar; garnet.
- 570-580 Clay - Moderate yellowish gray (5y 6/2); abundant sand; very fine to granule, subangular, poorly sorted; few glauconite; mica.
- 580-590 Sand - Yellowish gray (5y 7/2); abundant clay; fine to very coarse, angular and subangular, moderate sorting; few glauconite; mica; feldspar; garnet.
- 590-610 Clay - Moderate yellow gray (5y 6/2); abundant sand; very fine to granule, subangular, poorly sorted; few glauconite; mica.
- 610-620 Clay - Light brown (5yr 5/6); sparse sand, very poor to very coarse, subangular, poorly sorted; few glauconite; mica.
- 620-630 Sand - Very pale orange (10yr 8/2); very sparse clay in small clasts; medium to coarse, subangular, well sorted; few glauconite; mica; feldspar.

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Depth  
(feet)

630-720 Sand - Yellow gray (5y 7/2); very sparse clay in small clay clasts from 670-80' onward; coarse to granular until 650-60', then medium to very coarse until 670-80', then fine to granular, and coarse to granular at 710-720'; angular and subangular, moderate sorting; few glauconite grains ~~all the way down~~; feldspar; garnet from 670-80' onward.

720-740 Sand - Pale yellowish brown (10yr 6/2); abundant clay; medium to granule, angular and subangular, poorly sorted; feldspar.

740-744 No Sample.

Logged by: J. K. Polzin  
Sept. 30, 1980