COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

	NERAL RESOURCES OFFICE ADDRESS: R, COMMISSIONER McCormick Road
	OMPLETION REPORT Charlottesville, Virginia
Administration & Finance	911 East Broad Street
OWNER:Commonwealth of Virginia	Mailing Address: P.O. Box 1558, Richmond, Va. 232
TENANT: Rappahannock Community College	Mailing Address: Glenns, Virginia
DRILLER: Sydnor Hydrodynamics, Inc.	Mailing Address: P.O. Box 27186, Richmond, Va.232
WELL LOCATION: County Gloucester	Approx. 1/2 Mixed West (direction) of
Route 17 and 150	0 feet North (direction) of Route 33
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TOURNTY HIGHWAY OR OTHER MAP.)	V51U 951U U55 U55
DATE STARTED: 9/12/70	DATE COMPLETED: 10/6/70
TYPE OF DRILL RIG USED: Rotary	TOTAL DEPTH 708 feet
WATER LEVEL: Stands 146 1/feet below	
	gallons per minuteania 884 604
YIELD TEST: Method Submersible pump	HOLE SIZE: 12 inches from 0 to 708 feet
Drawdown 9 1/6 feet	feettofeet
Rate 140 gal. per min.	inches fromtofeet
Duration 9 hrs., 0 min. See screen & settings	SCREEN SIZE: 4 inches from 496 to 506 feet
WATER ZONES: from	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
fromtofeet	4 600 610 4 inches from 620 to 630 feet
fromtofeet	CASE SIZE: 6 inches from +2 to 350 feet
WATER: ColorTaste	$\frac{4}{4} \text{ inches from } \frac{506}{548} \text{ to } \frac{538}{582} \text{ feet}$
Odor	$\frac{4}{4} \text{ inches from } \frac{548}{592} \text{ to } \frac{582}{600} \text{ feet}$
WELL TO SUPPLY: (check one) Home	GROUTING: Method pressure 630 655
FarmTownSchool_X	Material Cement & water 1001 feet
IndustryOther	PUMP: Type
WATER ANALYSIS AVAILABLE: Yes X No	Capacitygal. per min
DRILL CUTTINGS SAVED: Yes 69 No	Depth of intakefeet
(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	
FARKS:	,

(LOG OF WELL) OVER

FURNISHED BY: Sydnor Hydrodynamics, Inc. DATE: 10/9/70

	Cormicle I arialtesv H	D TONGSO WANTS ISWAY 1 151	IV CLETTARY PROCESSY AUTOMOTER
(feet		TYPE OF ROCK OR SOIL PENETRATED	REMARKS
FROM	ТО	(gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, etc.)
0	60	Yellow Clay mol O sasible pulled	ENANT Rappadanneck Community
60	100	Blue Marl Shells	
100	110	Gray Sand	MILES Sydner Hydenskynamics Iv
110	160	Shells	water and the
160	170	Shells Gray Clay	THE TOOM LINE CAMES THE THE
170	220	Blue Clay	
220	230	Crar Clar	
230	240	Blue Clay	IVE DIRECTOR ALL DISTANCE IN PEET OR
240	258	Blue Clay Shells	A SAME ALTERS OF ANY THORPERS TANKING
258	285	Green Clay Old Jamos 3740	VIE STARTED: 0/12/70
285	347	Green Class shells	
347	355	Shell Rock	THE OF DRILL RIG DREDI KOLES
355	378	Green Clay	\$11.60T
378	405	Gray Clay, shells-some black sand	STATE SAUDIS OF STATE NO.
405	468	Blue-Clay mag another to wait	AR TAN SKY
468	473	Crear Clara shalls	A least the second seco
173	476	Hard gray clay	ELD TEST www. Euloperille pa
176	483	Dlask Cand Plus Clare	- VV II- (6
483	494	Blue Clay	
194	510		Male 140 oc. per r
510	523	Gray Clay with gray sand streaks	10 GM 100
523	538	Tough Blue Clay	Duration Orsentings
538	553	C C- 1	1 District Control of the Control of
53	570	Tough Brown Clay	ATER ZONES non
570	580	T- 1 D1 - C1	
580	635	Gray Sand	or most
635	643	Tough Gray Clay	NAME OF THE PARTY
543	663	Tough Brown Clay	V 1
663	688	Tough Brown Clay with streaks of gray cla-	VISST
688	708	Tough Brown and blue clay	У
,00	100	rough brown and brue clay	OdorTemp
EE	3 0.8	GROUTING Method DIESSUIE	ELL TO SUPPLY: (Sweek one) Home
331	100	x Moterial Cement C water	Form Town Sahaal
2027 04-04			
		PUM PS V _{SP} v	Industry
V.M. 196	.00		TER ANALYSIS AVAILABLE Yes
aut		atom to dispos	ILL CUTTINGS SAVED YES
EIHT III	(394)48		MULL CUTTINGS PHOULD BE COLLECTED IN

Have (Use additional forms if necessary)

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

INTERVAL SHEET

			C-82
Page	1	of 1	Well Repository No: 3118

Date rec'd: 11-19-70; processed 4-1-71 Sample Interval; from 0 to: 708'

PROPERTY: Commonwealth of Virginia Number of samples: 60

Rappahanock Community College

COMPANY: Sydnor Hydrodynamics, Inc. Total Depth: 708'

COUNTY: Glouchester (Glenns) Oil or Gas: Water:X Exploratory:

1				
	From-To	From-To	From-To	From-To
	0 - 10	250 - 260	500 -510	Ę.
	10 - 20	260 - 270	510 - 520	<u> </u>
	20 - 30	270 - 280	520 - 530	=
	30 - 40	280 - 290	530 - 540	-
	40 - 50	290 - 300	540 - 550	Ħ
)	50 - 60	300 - 310	550 - 560	_
	60 - 70	310 - 320	560 - 570	_
	70 - 80	320 - 330	570 - 580	
	=	330 - 340	580 - 590	-
	90 - 100	340 - 350	590 -600	-
	100-110	350 - 360	600 -610	
	110-120	360 - 370	610 - 620	2
	120-130	370 - 380	620 - 630	=
	130-140	380 - 390	630 - 640	_
	140-150	390 - 400	640 -650	=
	150- 160	400 - 410	650 - 660	_
	160- 170	410 - 420	660 - 670	
	=	420 - 430	670 - 680	.=
	180-190	430 - 440	680 - 690	-
	190-200	440 - 450	690 - 700	-
	200- 210	450 - 460	700 - 708	-
	210-220	460 - 470	-	-
	220- 230	470 - 480	-	
	230- 240	480 - 490	_	
ì	240- 250	490 - 500	-	-
		V93007 2017/31/2 V9007/07/4/2017/11/11		

All intervals have both washed and unwashed samples.

OWNER: Commonwealth of Virginia (Rappahannock Community College) DRILLER: Sydnor Hydrodynamics, Inc. COUNTY: Gloucester (Glenns)

W#3118 C#82

TOTAL DEPTH: 708'

0-50	Buff sand, variably clayey
50-70	Decomposed shell-and glauconitic-bearing sands
70-110	Gray well-sorted quartz sands (marine?) with minor shells and trace of glauconite
110-160	Well-sorted reworked shell; some gray clay
170-220	Drab silt-clay with some coarse shell and sand
220-240	Well-sorted clayey sand with shell (near shore marine?)
240-300	Gray to olive clays, become less silty-sandy and more compact downsection
300-348	Quartz-phosphate basal lithotope of Calvert Formation
348-390	Brown "glauco"-stained quartz assocaition; coarse, clayey basal litho. #1 locally a calcitic sandstone
390-470	Sands-autocthanous glauconite and quartz; drab clay mixture
470-490	Sands (as above)-well-sorted, slightly clayey
490-500	Medium sand, slightly clayey and glauconitic
500-510	Gray, coarse felsic sand; very slightly clayey
510-708	Gray felsic sands; mainly medium to coarse grained, a few fine; slightly glauconitic: intervals 560-580 and 650-708 are silty, bright-clayey w/plants and glauconite

OWNER: Commonwealth of Virginia

VDMR # 3118

(Rappahannock Community College)

WWCR#

DRILLER: Sydnor Hydrodynamics, Inc.

TOTAL DEPTH: 708'

COUNTY: Gloucester (Glenns)

GEOLOGIC SUMMARY

Depth (feet)	Rock Unit	Age
0-50	Columbia Group	Pleistocene
50-170	Yorktown (& St. Marys?) Formation	Late Miocene
170-348	Calvert Formation	Middle Miocene
348-390	Nanjemoy Formation	Eocene
390-490	Mattaponi Formation	Paleocene
490-708	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources Robert H. Teifke - Geologist July 2, 1971

OWNER: Commonwealth of Virginia

(Rappahannock Community College)

DRILLER: Sydnor Hydrodynamics, Inc.

COUNTY: Gloucester (Glenns)

VDMR # 3118

WWCR # 82

TOTAL DEPTH: 708'

GEOLOGIC SUMMARY

Depth (feet)	Rock Unit	Age	
0-50	Columbia Group	Pleistocene	+90 to +40
50-170	Yorktown (& St. Marys?) Formation	Late Miocene	+ 40 to -80
170-348	Calvert Formation	Middle Miocene	-80 % -258
348-390	Nanjemoy Formation	Eocene	-258 to -300
390-490	Mattaponi Formation	Paleocene	-300 to -400
490-708	Patuxent Formation	Early Cretaceous	-400 to -618

Virginia Division of Mineral Resources Robert H. Teifke - Geologist July 2, 1971 Owner: Rappa-Comm. College Adm. and Finance W# 3118
Driller: Sydnor C# 82

County: Glouchester Total Depth: 430'

Quad: Saluda Elev: 105'

Depth (feet) WELL LOG

0-130 No Samples.

Gravel, Shell - Light and dark gray; 90% shell fragments, <u>Dentalium Turritella</u>, very sparse clay at 130-140; very fine to fine, subangular, well sorted; quartz; sand.

Grave, Shell - Light and dark gray; very sparse clay in small clasts and grains; 85% shell fragments; fine to coarse, subangular, poorly sorted; quartz; sand; iron oxide fragments.

170-180 No Samples.

Gravel, Shell - Light and dark gray; sparse clay; clasts at 190-200; 60% shell fragments; fine with some larger grains, subangular, well sorted; iron oxide fragments.

200-220 Clay, Shelly - Light and dark gray; light olive gray (5y 6/1); clasts and grains; fine with some larger grains, subangular, well sorted; 50% shell fragments; iron oxide fragments.

220-230 Sand - Light and dark gray; sparse clay; medium to coarse, subangular, well sorted; 35% shell fragments; few phosphate fragments.

Sand - Light and dark gray; moderate clay, some in clasts; medium to coarse, subangular, moderately well sorted; 40% shell fragments; 8% fine phosphate fragments.

260-280 Clay - Light and dark gray; clay in clasts; abundant sand; fine to coarse, subangular, moderate sorting; sparse phosphate fragments; 40% shell fragments; iron oxide fragment.

280-300 Clay - Light olive gray (5y 6/1); in clasts and granular; abundant sand, fine to coarse, subangular, poorly sorted; 15% shell fragments; very rare phosphate fragments.

300-310 Sand - Light olive gray (5y 6/1); moderate clay; fine to very coarse, subangular, poorly sorted; 8% phosphate fragments; 12% shell fragments.

310-340 Sand - Light olive gray (5y 6/1); sparse clay; medium to coarse, subangular and angular, well sorted; 1% phosphate fragments; 5% shell fragments; some larger grains at 320-340; Foram-Quinqueloculina, at 330-340.

Depth (feet)

- 340-350 Sand Light olive gray (5y 6/1); very sparse clay in sand clasts; fine to granule, subangular, rounded (granule) and angular (medium), poorly sorted; 40% shell fragments; 10% glauconite.
- Sand, Glauconitic Light and dark brown; very sparse clay; 80% glauconite, brown, medium to granular; fine to granule with 20% small (4mm) pebbles, poorly sorted; 10% shell fragments; rare limestone fragments with glauconite.
- Sand, Glauconitic Light and dark gray; 50%+ glauconite dark green and brown, fine to coarse; moderate limestone/clay in both clasts and grains; fine to granule, subangular, angular and rounded, poorly sorted; 3% shell fragments.
- 370-380 Sand, Glauconitic Dusky yellowish brown (10yr 2/2); 80%+ glauconite, brown fine to very coarse; sparse clay; medium to granule, subangular, poorly sorted; rare shell fragments; limestone fragments with glauconite.
- Sand, Glauconitic Dark yellowish brown (10yr 3/2); 80% glauconite, brown and dark green*, fine to coarse; sparse clay with some in clasts; fine to granule, angular, subangular and rounded, poorly sorted; 3% shell fragments; petrified wood fragment; *more green at 390-400; limestone fragments; garnet 400-410.
- Sand, Glauconitic Greenish black (5Gy 2/1); 90% glauconite, green, very coarse; very sparse clay; fine to granule, subangular and rounded, poorly sorted; 2% shell fragment; Forams (badly broken); rare limestone fragments.

Logged by: J. K. Polzin Sept. 9, 1980 OWNER: Commonwealth of Virginia

(Rappahannock Community College)

DRILLER: Sydnor Hydrodynamics, Inc.

COUNTY: Gloucester (Glenns)

VDMR # 3118 WWCR # 82 TOTAL DEPTH: 708'

0-50	Buff sand, variably clayey
50-70	Decomposed shell- and gloucbearing sands
70-110	Gray well-sorted Q sands (marine?) with minor shells and tr. glauc.
110-160	Well-sorted reworked shell with minor well-sorted Q sand
160-170	Coarse sand and reworked shell; some gray clay
170-220	Drab silt-clay with some coarse shell and sand
220-240	Well-sorted clayey sand with shell (near)shore marine?)
240-300	Gray to olive clays, become less silty-sandy and more compact down section
300-348	Q-P ₂ O ₅ basal lithotope of T _c
348-390	Brown "glauco"-stained Q@ss"; coarse, clayey-basalf litho. #1 locally/ a calcitic sandstone
390-470	Sands-auto, glauco, and Qidrab clay mtx.
470-490	Sands (as above) - well-sorted, sl. clayey
490-500	Medium sand, sl. clayey, sl. glauco.
500-510	Gray coarse F'ic sand; v. sl. clayey
510-708	Gray F'ic sands, mainly M→C, a few VC, a few fine and sl. glauc. Intervals 560-580 and 650-708 are silty bright clayey w/plants and glauco.

Elev.: 80-107' estimate = 90' Saluda Quad.