COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

McCormick Road

OFFICE ADDRESS:

JAMES L. CALVER, COMMISSIONER B- 3667 Charlottesville, Virginia ottesville, VA 22903 WATER COMPLETION REPORT WELL Claremont Manor #3 Claremont, Va. 23899 OWNER __ James L. Kirby Mailing Address: _ Mailing Address 2111 Magnolla St. TENANT: ____ Mailing Address Richmond, VA. 23223 DRILLER: R. A. Turner s effects valo bula (direction) of WELL LOCATION: County Surry Approx. 1500 allede bas (direction) of -Int. T-1203 - T-1207 _____ and ____ _ miles ___ (GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.) DATE STARTED: 10/22/76 _DATE COMPLETED: 11/10/76 TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 303 feet WATER LEVEL: Stands____feet below surface _gallons per minute...si has NATURAL flow of___ Sand and Cravel YIELD TEST: Method Pump _to _303 HOLE SIZE: 12 inches from 0 feet Sand, Gravel, Some Clay Starekts Drawdown 12 feet _______ ____inches from___ __feet Rate 100 gal. per min. _____inches from _____to ____feet SCREEN SIZE: 4 inches from 262 to 272 feet Duration 24 hrs., min. 4 inches from 280 to 300 feet WATER ZONES: from _______to _____feet from_____feet ____inches from ____to___feet CASE SIZE: 6 inches from +2 to 262 feet from ______to_____feet 4 inches from 272 to 303 feet WATER: Color_____Taste____ Odor_________°F ____inches from _____to____feet WELL TO SUPPLY: (check one) Home X GROUTING: Method Material _____ Depth 65 feet Farm_____School____ PUMP: Industry____Other___ Туре _____ Capacity_____gal per min WATER ANALYSIS AVAILABLE: Yes _____No ____ Depth of intake ___ Yes_X_No___ feet DRILL CUTTINGS SAVED. (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.) ARKS:____

FURNISHED BY:_

DATE:_

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED		REMARKS		
FROM	TORRE	etc., hardness, color	, etc.)		ot, screen, sample, etc.)	
0	7	Yellow and Brown Clay			TWANT?	
7	30	Yellow Sandy Clay and Large Gra	avel	100 00000		
30	40	Gray Sand and Shells		Tenth	SRILLER R. B. B. T	
40	55	Blue Clay, Shells and Rock		emonos D		
55	56	Hard Rock		XYTHO (1994)		
56	60	Blue Clay and Shells		700 f_m	Int. T-1203 -	
60	70	Tough Green and Gray Clay		1032 1		
70	110	Soft Green Clay and Shells	5 VOIC 15334			
110	130	Tough Green Clay				
130	135	Rock III gaya guna arya		1.0/22/76		
135	145	Soft Sand, Shells and Green Cla	1072			
145	180	Tough Green Clay	V:	no user Rota		
180	218	Blue and Green Clay with Fine S	sand			
218	220	Tough Sand Clay	water resi			
220	242	Soft Green Sand Clay				
242	260	Hard Sand Clay	who work a			
260	270	Sand and Gravel				
270	280	Sand Clay Streaks				
280	301	Sand, Gravel, Some Clay Streak	KS	4000		
301	303	Clay	.1 200	25 200	491G	
	- 1		8.3	100 000	103	
2	-0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -	CASE SIZE 6	1761			
		most sayanı				
		GROUTING, Method	X X			
	. 65an	g G				
		PUMP Type				
	100	(1.500) y	: 			
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					EXFA	

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

INTERVAL SHEET

Page	1	of	1	Well Repository No.:	C#: W#:	
Date re	ec'd 1/11/7	7 Da	te Processed: 7/11/77	Sample Interval: from	0	to: 303
PROPERT	ry: James	L. Kirby	(Clarement Manor #3)	Number of samples: 3]		

COMPANY: Sydnor Hydrodynamics Total Depth: 303

COUNTY: Surry (Claremont) Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0-10	250 - 260) =	-
10 - 20	260 - 270	-	-
20 - 30	270 - 280	y _	-
30 - 40	280 - 290	-	-
40 - 50	290 - 300	: 	-
F0			
50 - 60	300 - 303	-	-
60 – 70	-	-	
70 - 80	-	_	-
80 - 90	-	_	-
90 - 100	-	-	.
100 - 110		::	
110 - 120	_	_	
120 - 130	2	_	_
130 - 140	_	_	_
140 ~ 150	_	_	_
150 - 160	_	-	_
160 - 170	_	\ _	-
170 - 180	-	-	- -
180 - 190	-	=	
190 - 200	=	=	
200 - 210	-	-	
210 - 220	- ,	-	-
220 - 230	-	-	7
230 - 240	-	-	V
240 – 250	=	=	-

Washed and unwashed samples.

OWNER: James L. Kirby

Claremont Manor #3

Sydnor Hydrodynamics

COUNTY: Surry (Claremont)

W#: 4789

C#:

TOTAL DEPTH: 304'

135

GEOLOGIC LOG

Depth (feet)

DRILLER:

BACONS CASTLE (0-20)

- 0-10 Sand grayish orange; abundant clay; fine to coarse grained; subangular to subrounded; poorly sorted; quartz (inc. rose); feldspar; some very fine opaques.
- 10-20 Sand and gravel- dark yellowish orange; abundant clay; silty; fine sand to pebble size; subangular to rounded; poorly sorted; various type of quartz; feldspar; very fine opaques; few grains weathered glauconite.

YORKTOWN FORMATION (20-70)

- 20-30 Sand grayish orange; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; abundant very fine opaques; some black phosphatic material; some shell and limestone fragments; weathered glauconite; feldspar; spines.
- 30-40 Sand dusky yellowish gray; moderately clayey; fine with some medium grains, some granules; subangular to subrounded; moderately well sorted; quartz; 25% shell fragments; black phosphatic material; very fine opaques; glauconite; spines.
- 40-50 Sand light olive gray; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 15% shell fragments; black phosphatic material; glauconite; spines; few fragments of ferricrete; ostracode.
- 50-60 As above except granules; 35% shell and limestone fragments; no ostracode.
- 60-70 Sand light olive gray; slightly clayey; very fine to granular grained; subangular to rounded; poorly sorted; quartz; 25% shell and limestone fragments; black phosphatic material; spines; few ferricrete fragments.

CALVERT FORMATION (70-140)

70-80 Sand - olive light gray; abundant clay; fine to medium grained with granules; subrounded; moderately well sorted; quartz; 8% shell fragments; phosphatic material; spines; few glauconite grains.

OWNER: James L. Kirby Claremont Manor #3

	D	e	p	t	h
(f	е	e	t)

As above except fewer granules; 15% shell fragments; forams 80-90 rare (inc. Buccella); ostracodes.

-2-

- 90-100 As above except darker olive color; more forams observed.
- Sand olive light gray; moderate clay; fine to medium 100-110 grained; subangular to subrounded; moderately well sorted; quartz; 8% shell fragments; black phosphatic material; glauconite; spines; forams (inc. Buccella and Textularia).
- 110-120 Sand - olive light gray; abundant clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 10% shell fragments; black phosphatic material inc. teeth, glauconite; spines; forams (inc. Buccella, Nonion and Discorbis); bone fragments.
- 120-130 Sand and clay - grayish olive; abundant clay; abundant sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 17% shell fragments; 3% black phosphatic material; some sandy limestone fragments; glauconite; forams; spines.
- 130-140 As above except 7% phosphatic material.

NANJEMOY FORMATION (140-180)

- 140-150 Limestone and sand - olive light gray; abundant clay; abundant sand; fine to coarse grained; subangular to rounded; moderately sorted; 45% limestone (sandy) and shell fragments; quartz; 3% glauconite; phosphatic material; forams; ostracodes (sp ?); poorly washed.
- 150-160 Limestone and sand - olive light gray; abundant clay; fine to coarse grained; subrounded to rounded; moderately sorted; quartz; 25% sandy limestone and shell fragments; 15% glauconite; phosphatic material; ostracodes common; forams (inc. Buccella); few spines.
- 160-170 Sand and clay - olive light gray; abundant clay; abundant sand; fine to coarse grained; subrounded to rounded; moderately sorted; quartz; 20% sandy limestone and shell fragments; 15% glauconite; phosphatic material; ostracodes abundant; forams scarce; few spines.
- 170-180 As above - clay appears to be weathered limestone; 20% glauconite; ostracodes not as plentiful.

Claremont Manor #3

W#: 4789

Depth (feet)

300-303 As above except a few pebbles; garnet common.

Note: Sp - sample taken.

GEOLOGIC SUMMARY

Thickness (feet)	Rock Unit	Time Rock Unit
20	Bacons Castle Formation	Pliestocene
50	Yorktown Formation	Pliocene-Miocene
70	Calvert Formation	Miocene - Eocene
40	Nanjemoy Formation	Eocene
70	Mattiponi Formation	Eocene-Cretaceous
53	Patuxent Formation	Cretaceous

Virginia Division of Mineral Resources David A. Hubbard, Jr., Geologist June 29, 1978 Claremont Manor #3

Depth (feet)

MATTIPONI FORMATION (180-250)

- 180-190 Sand grayish olive; abundant day; medium grained; rounded; moderately well sorted; 45% glauconite; quartz; 3% shell and limestone fragments; pyrite; ostracodes; sharks teeth.
- 190-200 Sand grayish olive; abundant day; fine to medium grained; rounded; moderately well sorted; 60% glauconite; quartz; some shell and limestone fragments; pyrite.
- 200-210 As above except olive gray; 70% glauconite; forams.
- 210-220 As above except 50% glauconite; (inc. Robulus).
- 220-230 As above except 60% glauconite; no forams observed; phosphatic material.
- 230-240 Sand olive light gray; abundant clay; fine to medium grained; subrounded to rounded; moderately well sorted; quartz; 45% glauconite; 3% shell and limestone fragments; some phosphatic fragments; forams rare.
- 240-250 Sand grayish olive; moderate clay; silty; fine to medium grained with 20% granules; rounded; moderately well sorted; 50% glauconite; quartz; pyrite; few spines.

PATUXENT FORMATION (250-303)

- 250-260 As above except 9% granules; 60% glauconite; garnet.
- 260-270 Sand salt and pepper; fine to very coarse grained with a few granules; subangular to rounded; moderately sorted; quartz; 45% glauconite; feldspar; garnet; few shell fragments; pyrite.
- 270-280 As above except slightly clayey; 10% glauconite; garnet abundant.
- 280-290 Sand light olive gray; moderate clay; medium to very coarse grained with 6% gravel; subangular to rounded; poorly sorted; quartz; feldspar; 7% glauconite; garnet; a few phosphatic fragments; few shell and limestone fragments.
- 290-300 Sand light olive gray; moderate clay; fine to very coarse grained with a few granules; subangular to rounded; poorly sorted; quartz; feldspar; 25% glauconite; garnet abundant; few shell and limestone fragments.