OFFICE ADDRESS:

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

WELL

Box 3667 Colottesville, VA 22903 WATER

JAMES L. CALVER, COMMISSIONER

COMPLETION REPORT

McCormick Road Charlottesville, Virginia

State Water Control Board, Ob. Well #76

Mailing Address: 2111 N. Hamilton St., Richmond, VA TENANT: __ ____ Mailing Address:___ DRILLER: Sydnor Hydrodynamics Inc. Mailing Address. 2111 Magnolia St., Richmond, VA 23220 WELL LOCATION: County Nansemond S. Quay (w. edge) prox. ______ miles ______ ___(direction) of feetxim eliens busy (direction) of — _miles___ and___ (GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.) DATE COMPLETED: 06/06/75 04/21/75 DATE STARTED:____ Rotary M alisma bms vsf0 TOTAL DEPTH 1,063 TYPE OF DRILL RIG USED:____ feet Hard Otreak of Shells below surface OR VAID bone sould WATER LEVEL: Stands____feet Shells, Black Sand with streams of Green __gallons per minute. has NATURAL Black Sand with Some Gray Clay HOLE SIZE: 11 inches from _ YIELD TEST: Method __ 0 to 1063 feet Gray Sandy Clay with Streaks o To extend with Sexul Local of inches from _ _to __ feet feet __inches from _ __to ____feet gal per min. yand some Some ADIM mithy we 504 feet SCREEN SIZE: 4 inches from _ Duration _____hrs., ____min. bankin valu 016 Gray and Brown Clay with some 499 WATER ZONES: from ______ to ___ _feet vara eamon inches from 812 817 _feet 988 993 SIZE:__ 4_inches from_ 0_to___ from ______to____ feet to 1015 feet ____Taste___ WATER: Color___ inches from Sand, Gray Cla __Temp. ___ _inches from_ _feet -tonrk Gray Rock GROUTING: Method _______ TO SUPPLY: (check one) Home _ Depth. Red and Light Yellow Clay with _____ Town____ School_ Type Dnas Vanp Industry____Other__Observation Brown and red and gray clay Capacity Vonsa varo gal WATER ANALYSIS AVAILABLE: Yes ___ _No_ per min Mostly gray aand with streaks of gray clav Yes XX Note Valo y to omoe daily Depth of intake deal DRILL CUTTINGS SAVED: 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.) R ARKS:___ Light gray sand clay with shells - Sox

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

FURNISHED BY ._

DATE:

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED	REMARKS		
FROM	TO	(gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, etc.		
PAGE S		The same and the s			
0	8	Yellow, Brown, Gray Sandy Clay	ENANT		
EC 8:07	20	Light and Dark Gray Clay			
20	30	Gray Sandy Clay	RILLER Sydnor Hydrodynamics Inc.		
	40	Brown and Crass Cooker Cond Cmall gravel			
30	40	Brown and Gray Coarse Sand, Small gravel	ELL LOCATION County Nansemond S.		
40	E E				
40	55	Blue Clay and Shells Mixed			
55	85	Gray Clay and Shells Mixed			
85	115 VIA	Blue and Gray Clay with Fine Sand	RO TEST NI SOMATZIO DAN MONTOSKI SVI		
115	130	Blue and Gray Clay, Shells and Some Sand	COUNTY RIPHWAY ON OTHER MAP)		
130	145	Tough Blue Clay	ATE STARTES 04/21		
145	160	Dark Gray Sandy Clay	The state of the s		
160	182	Black Sand, Gray Clay and Shells Mixed	YEE OF DAILL RIG USED		
182	183	Hard Streak of Shells			
183	190	Black Sand, Gray clay and Shells	THE PARTY OF THE P		
190	203	Shells, Black Sand with streaks of Green	ATER LEVEL: SOLAR		
100	203				
203	210	Black Sand with Some Gray Clay Mixed	A RUTAM ROM		
	The state of the s		2		
210 830	220	Gray and Green Sandy Clay	LELD TEST Served TEST GIB		
220	230	Gray Sandy Clay with Streaks of Shell Mixed			
230	235	Mostly Gray Sand Mixed with Streaks of Gray Clay	Di Owdown		
235	255	Brown Sandy Clay with MICA and Some Gray Sand	AND TO THE PARTY OF THE PARTY O		
255	265	Mostly Gray Sand, Little Green Clay Mixed	Duranan hrs		
265	270	Gray and Brown Clay with some Gray Sand			
270	280	Gray Sand	AYER ZONEST NOW		
280	297	Coarse Gray Sand with Mica and Few Shells			
		Gray Clay and Gray Sand Mixed	of mad		
297 g g g	315 88	The state of the s			
315	325	Mostly Gray Clay with Little Sand Mixed	A P month		
325	330	Dark Gray Clay with Mica			
330	340	Tough Dark Brown Clay	ATERCON STORY		
340	365	Black and Gray Sand, Gray Clay and Streaks of Shells			
365	366	Streak of Dark Gray Rock	9,007		
366	385	Gray Clay with Streaks of Fine Sand			
385	390	Gray Clay	ELL TO SUPPLY (charck one) Home		
390	400	Mixed Colors of Clay			
400	420	Red and Light Yellow Clay with Streaks of	Face Town Stran		
400	420		en:		
400	400	gray sand gwi gwug no.itav	helestry Obsez		
420	430	Brown and red and gray clay			
430	445	Gray sandy clay	ATER ANALYSIS AVAILABLE Yes		
445	460	Mostly gray sand with streaks of gray clay			
460	480	Mostly gray sand with some gray clay and	TEST, DEANG SOMILING THE		
	SHIPPED T	streaks of quartz are appropriately took of the	GREENWAR SHOULD BE COLLECTED		
480	490		PRICE EXPANSS COLLECT SAMPLE BAG		
490	500	Gray sand and gray clay mixed	30000		
500	520	Gray sand, gray and white sandy clay mixed	5 9 g x		
520	538	Light gray sand clay with shells			
538	553	Light gray and white sandy clay			
		[
553	568	Green clay with white sandy clay			
(Cont	nued)				

Driller's Log (Cont.)

Owner:

4 4 4

State Water Control Board

W# 4448

Driller:

Sydnor Hydrodynamics Nansemond (Suffolk)

C# 192

County:

Depth	(feet)	Type of Rock or Soil Penetrated
From	To	
568	620	Gray clay, streaks of gray sand, quartz mixed with some mica
620	628	Gray sand, gray sand, clay and river rock
628	653	Gray and white sandy clay with streaks of sand
653	660	Gray Clay
660	671	Tough purple clay
671	673	Sandy and Gray clay mixed
673	684	Gray sandy clay, Big gravel and river rock
684	703	Green, Brown, gray clay mixed
703	718	Gray Clay
718	725	Gray sand clay with coarse sand
725	730	Coarse Sand
730	758	Gray, white, purple clay with sand and pebble
758	761	Tough Clay
761	764	White and Gray sandy clay
764	770	Tough blue and gray clay
770	778	Light gray sandy clay
778	808	Green and gray sand clay
8	828	Sandy, gravel, gray sandy clay
828	845	Brown and gray clay
845	870	Tough red clay
870	883	Gray, brown, and green sandy clay
883	900	Brown, gray, sandy clay
900	920	Red, Green, Blue and Gray Clay
920	921	Tough red clay
921	930	Red Clay and Shale
930	943	Red, Gray clay, streaks of shells and rock
943	955	Red Clay
955	973	Tough red and Gray Clay
973	978	Tough Gray Clay
978	988	Brown and white sandy clay, shells and rock mixed
988	1013	White sandy clay, lot of gravel mixed
1013	1014	Hard Rock Streak
1014	1028	Hard clay, Gravel and shells mixed
1028	1030	Hard rock streak
1030	1048	Tough, blue, brown, with streaks of red clay and shells
1048	1050	Tough Gray and brown Clay
1050	1051	Tough gray clay
1051	1058	Limestone and shells mixed
1058	1063	Limestone

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

INTERVAL SHEET

Page :	L of	1						Well Re	epository	No.:	W-	4448	
Date rec	d: 9/22	/75	Date Prod	cessed:	8/9,	/76		Sample	Interval	from		0	to: 1063
PROPERTY	State	e Water	Control	Board,	Ob.	Well	#76	Number	of sample	es:		106	

C-192

Oil or Gas: Water: XX Exploratory:

COMPANY: Sydnor Hydrodynamics Total Depth: 1063'

	From-To	From-To	From-To	From-To	From-To
	0-10	300-310	600-610	900-910	_
	10-20	310-320	610-620	910-920	_
	20-30	320-330	620-630	920-930	-
	30-40	330-340	630-640	930-940	-
	40-50	340-350	640-650	940-950	-
	50-60	350-360	650-660	950-960	-
)	60-70	360-370	660-670	960-970	-
	70-80	370-380	670-680	970-980	-
	80-90	380-390	680-690	980-990	-
	90-100	390-400	690-700	990-1000	-
	100-110	400-410	700-710	1000-1060	1-1
	110-120	410-420	Appendix Co. Market 1997	1060-1063	-
	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	760-770	-	-
	170-180	470-480	770-780	_	-
	180-190	480-490	780-790	_	-
	190-200	490-500	790-800	-	-
	200-210	500-510	800-810	_	_
	210-220	510-520	810-820	-	-
	220-230	520-530	820-830	_	_
	230-240	530-540	830-840	_	-
	240-250	540-550	840-850	-	-
	250-260	550-560	850-860		_
	260-270	560-570	860-870	=	-
	270-280	570-580	870-880	-	-
	280-290	580-590	880-890	-	_
	290-300	590-600	890-900	-	-:
			CLOCK (SEE SECTIONS)		

Nansemond S. Quay

COUNTY:

	Quad: Gates Elev: 80'
Depth (feet)	WELL LOG
0-10	Sand - dark yellowish brown (10YR 4/2); moderate clay; medium to very coarse, subangular, few granules, moderately well sorted; quartz.
10-20	Sand - light olive gray (5Y 6/1); moderate clay; fine to coarse, subangular, few very coarse, moderately well sorted; quartz.
20-30	Sand - as above, except: clay in clasts; fine to very coarse; feldspar; root debris.
30-40	Sand - moderate yellowish brown (10YR 5/4); moderate clay in clasts of gray, yellow-orange; fine to granule; subangular to subrounded, poorly sorted; quartz; feldspar; iron; wood fragments.
40-50	Sand - light olive gray (5Y 5/2); moderate clay, some in clasts; fine to granule, subangular to subrounded, poorly sorted; quartz; 10% shell fragments, pelecypod - Mulina Congesta.
50-60	Sand - as above, except: 50% shell fragments, of which most are Mulina Congesta, 2 other pelecypods, and gastropods, Cancillaria and Littorina.
60-70	Sand - as above, except: echinoderm spines.
70-80	Clay - as above, except: clay in small pellets; sparse sand; medium to very coarse; 40% shells - Mulina.
80-90	Clay - as above, except: moderate sand; 15% shell fragments; mica.
90-100	Sand - light olive gray (5Y 6/1); clay in clasts; medium to coarse, subangular, moderately well sorted; quartz; 5% shell fragments; mica.
100-110	Sand - as above, except: 10% shell fragments.
110-120	Clay - greenish gray (5GY 6/1); sparse sand; medium to coarse, subangular, poor sorting; quartz; 7% shell fragments.

Owner: State Water Control Board Driller: Sydnor Hydrodynamics

Nansemond (Suffolk)

County:

120-130

Clay - as above.

W# 4448

C# 192

Total Depth: 1063

Owner: State Water Control Board W# 4448 C# 192

Depth (feet)

- 130-140 Sand light olive gray (5Y 6/1); moderate clay (gray) in clasts; medium to coarse, subangular, moderate sorting; quartz; 7% shell fragments.
- 140-150 Clay greenish gray (5GY 6/1) to light olive gray (5Y 6/1); clay in clasts; sparse sand; medium to coarse, subangular, poor sorting; quartz; sparse shell fragments.
- 150-160 Clay light olive gray (5Y 6/1); abundant clasts of clay; were mica; wood fragments; shell fragments, rare.
- Sand olive gray (5Y 2/1); abundant clasts of clay; sparse silt; medium to coarse, few very coarse, subangular, poor sorting; quartz; 25% glauconite (green); 3% large black glauconite/phosphate; bone fragments; leaves; shell fragments; shark teeth; wood fragments.
- 170-180 Sand, Glauconitic greenish black (5GY 2/1); sparse clay in clasts; sand 80% medium to coarse grained glauconite; 20% medium to coarse, moderately sorted, quartz; phosphatic bone fragments; shell fragments rare.
- 180-190 Gravel blue-white to white (N9), and green, salt and pepper; clasts of sandy limestone with glauconite embedded; sparse sand; medium to very coarse, subangular, poorly sorted; quartz; 30% glauconite; echinoderm spines; feldspar; garnet chips; shark teeth; corals; shell fragments; forams Nodosaria.
- 190-200 Gravel as above, including: bryozoa; pelecypod casts.
- 200-210 Sand salt and pepper, olive gray; sparse clay/sandy limestone; medium to very coarse, subangular, some granules, poor sorting; quartz; 20% glauconite; shell fragments; leaf debris; iron; echinoderm spines; foram Robulus; blue quartz; garnet.
- 210-220 Sand light olive gray (5Y 6/1); very sparse clay; sparse silt; medium to very coarse, subangular, poor sorting; quartz; 5% glauconite; 2% mica (muscovite); coral; echinoderm spine; foram Nodosaria.
- 220-230 Sand as above, except: medium to granule; feldspar; wood and bone fragments; shell fragments rare.
- 230-240 Clay medium olive gray (5Y 5/1); clay in clasts and grains; very sparse silt; moderate sand; medium to coarse, poorly sorted; quartz; 1% glauconite; 1% mica.

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Owner:	State Water Control Board	W# 4448 C# 192
Depth (feet)		
240-250	Sandy-Clay - olive gray (5Y 4/1); abundant sand; medium to very coarse, signanules, poorly sorted; quartz; 1% glasaprolitic feldspar; garnet; root debria	subangular, some auconite; some mica;
250-260	Clay, Sandy - greenish gray (5GY 6/1); fine to very coarse; 7% mica - very fin	
260-270	Sand - salt and pepper; sparse clay in subangular to subrounded, some pebbles 8% glauconite; feldspar; garnet; mica;	, poor sorting; quartz;
270-280	Sand - as above.	
280-290	Sand - as above, except: very sparse echinoderm spine; pelecypod shells.	clay clasts; no pebbles;
290-300	Sand - as above, except: moderate clargranule, subangular, poor sorting; quamica; echinoderm spines; feldspar; blue	rtz; 8% glauconite; some
300-310	Sand - as above, except: 1% root debr	is.
310-320	Sand-Clay - olive gray (5Y 4/1); abundants; abundant sand; fine to coarse, sorted; quartz; 7% glauconite; iron; so	subangular, poorly
320-330	Clay - olive gray (5Y 4/1); abundant c sand; fine to very coarse, subangular 8% glauconite; shell bits; root debris	poorly sorted; quartz;
330-340	Clay - as above.	
340-350	Clay - moderate olive gray (5Y 5/1); a glauconite; no shell/root debris.	s above, except: 5%
350-360	Clay - olive gray (5Y 4/1); as above.	
360-370	Clay - moderate olive gray (5Y 5/1); a sparse sand, very fine; pyrite; rare s	
370-380	Clay - as above.	
380-390	Clay - as above, except: sparse sand; glauconite.	medium to coarse; some

Owner:	-4- State Water Control Board W# 4448 C# 192
Depth (feet)	
390-400	Clay - moderate yellow-brown (10YR 5/2); clay in clasts and pellets; moderate sand; medium to very coarse, subangular, poor sorting; quartz; few glauconite; few shell fragments.
400-410	Clay - yellow brown (10YR 6/4); as above, except: root debris.
410-420	No sample.
420-430	Clay - as above, except: medium to coarse; sparse sand.
430-440	Clay - light olive gray (5Y 6/1); clay in clasts, grains; moderate sand; medium to very coarse, subangular, poorly sorted; quartz; few glauconite; mica and shell fragments.
440-450	Sand - as above, except: abundant clay; sand, medium to coarse.
450-460	Sand - as above, except: moderate clay; sand, medium to granule; 1% glauconite.
460-470	Sand - as above, except: medium to pebble; rare glauconite.
470-480	Sand - as above, except: sparse clay in sand clasts; medium to granule; most grains granule size; glauconite rare.
480-490	Sand - as above, except: moderate clay in clasts; medium to very coarse, some granules; iron.
490-500	Sand - as above, except: clay in light beige clasts; moderate silt; medium to granule; garnet chips; mica; rare glauconite; shell fragments.
500-510	Sand - light olive gray (5Y 5/2); as above, except: sparse clay in sand clasts; moderate sorting.
510-520	Sand - light olive gray (5Y 6/1); as above, except: moderate clay in clasts and pellets; moderate silt; poorly sorted.
520-530	Sand - as above, except: sparse silt.
530-540	Sand - as above.
540-550	Sand - as above, except: some pebbles.
550-560	Clay - as above, except: sparse sand; medium to pebble, poorly sorted; few glauconite.

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Owner:	State Water Control Board W# 4448 C# 192
Depth (feet)	
560-570	Clay - as above, except: some mica; shell fragments.
570-580	Clay - as above, except: yellowish gray (5Y 8/1); medium to very coarse.
580-590	Clay - as above.
590-600	Clay - as above.
600-605	No Sample.
605-610	Sand - as above, except: abundant clay in clasts; moderate silt; medium to very coarse, some granules, poor sorting; quartz; rare glauconite, mica, shell fragments and garnet.
610-620	Sand - as above, except: sparse clay, some pebbles, moderate sorting; feldspar; wood fragments.
620-630	Sand - as above, except: poor sorting, 3% 10mm+ pebbles.
630-640	Sand - yellow gray (5Y 7/1); abundant clay; medium to granule, subangular to subrounded, few pebbles, poor sorting; quartz; few mica; glauconite; feldspar.
640-650	Sand - moderate yellowish brown (10YR 5/5); sparse clay; sparse silt; sand - medium to granule, subangular, some pebbles, poor sorting; quartz; wood fragments; glauconite.
650-660	Sand - as above; wood fragments.
660-670	Clay - as above; abundant clay clasts; sparse sand.
670-680	Sand - yellow gray (5Y 7/1); abundant clasts; moderate clay; medium to granule, some pebbles; iron.
680-690	Sandy Gravel - light olive gray (5Y 6/1); very sparse clay in clasts; sparse silt; 30% pebbles; sand - as above.
690-700	Clay - moderate olive gray (5Y 5/1); clay in clasts of tan/ gray; sparse sand - medium to granule, few pebbles; glauconite; shell fragments.
700-710	Clay - yellow gray (5Y 7/2); as above, except: medium to very coarse; plant debris.

Owner:	-6- State Water Control Board W# 4448 C# 192
Depth (feet)	
710-720	Sandy Clay - as above, except: clay in clasts and pellets; abundant sand; iron.
720-730	Sand - as above, except: sparse clay in clasts; some granules; iron.
730-740	Sand - as above, except: medium to granule; garnet chips; very sparse clay.
740-750	Sand - yellowish gray (5Y 8/1); moderate clay in clasts; moderate silt; sand - medium to very coarse, some granules; garnet; mica; feldspar; shell fragments.
750-760	Sand - as above, except: very sparse clay; medium to pebble.
760-770	Sand - as above, except: moderate clay.
770-780	Sand - as above, except: medium to coarse, some very coarse to granule; glauconite, rare; saprolitic feldspar.
780-790	Sand - as above, except: moderate sorting.
790-800	Sand - as above, except: abundant clay; medium to granule, poor sorting; iron.
800-810	Sand - as above, except: medium to pebble.
810-820	<pre>Sand - as above, except: sparse clay; garnet; feldspar; mica; glauconite, rare.</pre>
820-830	Sand - as above, except: very sparse clay; iron.
830-840	Clay - gross salt and pepper clasts of dark gray, gray, brown, white, red, tan; abundant gravel, medium to pebble, poorly sorted.
840-850	Sand and Clay - as above.
850-860	Clay - light brown (5YR 6/4); abundant clasts of brown, tan, orange; moderate sand; medium to very coarse, few granules.
860-870	Sand, Clayey - pale yellowish brown (10YR 6/2); abundant clay; sand - as above; iron, shell fragments and root debris rare.

Depth (feet)	
870-880	Sand - moderate yellow-brown (10YR 6/4); abundant clay and pellets; medium to very coarse, some granules.
880-890	Sand - as above, except: moderate clay; few pebbles; shell fragment; root debris.
890-900	Clay - yellowish gray (5Y 7/2); abundant clasts; abundant sand, medium to granule; feldspar.
900-910	Sand - color as in 870-880; abundant clay, clasts; sand as above.
910-920	Clay - light brown (5YR 6/4); clasts of red, brown, white, tan; abundant sand; medium to granule, subangular to subrounded, some pebbles, poorly sorted; quartz; rare shell fragments.
920-930	Shell Hash - variegated in color; abundant clasts of clay in gray, white, red, brown; 17mm+ pebbles; abundant, poorly sorted sand, as above; glauconitic limestone fragments; shell fragments; root debris.
930-940	Clay - moderate yellow brown (10YR 6/4); abundant clasts; dark gray and tan, white, orange; sparse sand, as above; no pebbles; mica and garnet rare.
940-950	Sand-Clay - light brown (5YR 6/4); as above, except: abundant clay; abundant sand; few 10mm+ pebbles.
950-960	<pre>Sand - as above, except: abundant large clasts of sand with sparse clay; no pebbles; sparse glauconite, shell fragments; garnet; pyrite.</pre>
960-970	Sand and Clay - moderate yellow brown (10YR 6/4); as above, except: Mulina fragments.
970-980	Sand and Clay - light brown (5YR 6/4); as above, except: root debris.
980-990	Clay - tan and white; abundant large clasts, gray, tan, white, orange; moderate sand - as above; Mulina fragments.
990-1000	Gravel - salt and pepper; sparse amount dark gray clay clasts; gravel - 50% 10mm+ pebbles; rest, sand, coarse to granule; glauconitic limestone fragments; sandstone fragments.
1000-1010	Gravel - as above, except: sand clasts with sparse clay; 8mm+ pebbles; sand, medium to granule.

Owner:

State Water Control Board

W# 4448 C# 192

Depth	
(feet)	

1010-1020 Gravel - as above.

1020-1030 Gravel - as above, except: shell fragment.

1030-1040 Sand - pale yellowish brown (10YR 6/2); very slight clay in sand clasts; medium to granule; subangular; moderately well sorted; quartz; rare glauconite; iron; shell fragment.

1040-1050 Sand - as above, except: abundant clay in sand clasts and pellets.

1050-1060 Clay - light olive gray (5Y 5/2); abundant clasts; abundant sand as above; shell fragments common.

1060-1063 Sand - pale yellow brown (10YR 6/4); very sparse clay - in sand clasts; medium to very coarse, subangular, granules common, moderately well sorted; glauconite; mica; feldspar.

Logged by: J. K. Polzin March, 1980