COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

	ERAL RESOURCES OFFICE ADDRESS: R, COMMISSIONER McCormick Road
	OMPLETION REPORT Charlottesville, Virgini
Commonwealth of Virginia OWNER: Dept. of Agriculture	P. O. Box 1163 Mailing Address: Richmond, Virginia 23209
TENANT:	Mailing Address
DRILLER: Sydnor Hydrodynamics, Inc.	Mailing Address Richmond, Virginia 23223
WELL LOCATION: County South Hampton (Ivor)	Approx. 90 feet north (direction)
Rt. 460 and 1	
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TO COUNTY HIGHWAY OR OTHER MAP.)	WO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: 8/25/78	DATE COMPLETED: 9/26/78
TYPE OF DRILL RIG USED: Rotary	TOTAL DEPTH 450 feet
WATER LEVEL: Stands 130 feet below	surface <u>OR</u>
has <u>NATURAL</u> flow of	gallons per minute.
YIELD TEST: Method Pump	HOLE SIZE: 10 inches from 0 to 450 fee
Drawdown feet	totofee
Rategal. per min.	inches fromtofee
Durationhrs.,min.	SCREEN SIZE:inches fromtofee
WATER ZONES: from	inches fromtofee
fromtofeet	inches fromtofee
fromtofeet	CASE SIZE: 4 inches from +2 to 290 fee
WATER: ColorTaste	4inches from_300_to_385_fee
Odor°F	4inches from 390to_428fee
WELL TO SUPPLY: (check one) Home	GROUTING: Method433 438
Farm Town School	Material Depth fee
IndustryOther	PUMP: Type
WATER ANALYSIS AVAILABLE: Yes X No	Capacitygal per mir
DRILL CUTTINGS SAVED: Yes X No (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT II OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHE	
R ARKS:	

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

INTERVAL SHEET

Page 1 of 1 Well Repository No.: W- 5424 C-417 Date rec'd: 11/1/78 Date Processed: 2/27/29 Sample Interval: from 0 to:450'

PROPERTY: Comm. of Virginia Number of samples: 44

COMPANY: Sydnor Hydrodynamics Total Depth: 450'

COUNTY: Southampton (Ivor) Oil or Gas: Water: X Exploratory:

	From-To	From-To	From-To	From-To	From-To
	0-10	300-310	_	_	_
	10-20	310-320	=	=	_
	20-30	320-330	=	=	-
	30-40	330-340	-	=,	=
	40-50	340-350	-	-	-
	50-60	350 - 360	_	_	(== 2
	60-70	360-370	-	-	-
	70-80	370 –380	=	: - :	
	80-90	380 -390	_	_	1_
	90-100	390 -400	-		=
	100-110	400-410	_	_	<u>-</u>
	110-120	410-420	-	1-	_
	120-130	420-430	-	_	_
	130-140	430-440	_	i 	72 -4 :
	140-150	440-450	-	-	-
	150-160		_	»	_
	160-170	_	<u> </u>	_	_
	170-170	_	======================================	<u>_</u>	_
	180-190	_		<u></u>	_
	190-190	_	_	_	_
	190-200	_			
	200-210	_	=	_	-
	210-220	-	_		-
	220-230	-	-	-	-
	230-240	_	-	_	-
	240-250	-	-	-	=
	250-260	<u>-</u>	-	-	-
	260-270	_	_		_
)	270-280	-	_		-
1	280-290	_	; = 3		; = :
	290-300	_	_	-	<u>-</u>

Owner: Driller: County:	Dept. of Agriculture, Va. W# 5424 Sydnor Hydrodynamics, Inc. C# 417 Southhampton Total depth: 450' Quad: Ivor Elev: 73'
Depth (feet)	WELL LOG
0-20	Sand - grayish orange \$\(\big(10 \) yr 7/4); fine to granule, subangular, moderate sorting.
20-30	Sand - grayish orange (10yr 7/4); moderate clay, (10hr 6/2) pale yellow brown; very fine to pebble, subangular, some round; poor sorting.
30-40	Gravel, Shell - pale yellowish brown (10yr 6/2); moderate clay- pale yellowish brown and light olive gray; 50% shell fragments; very fine to pebble, subangular, some rounded; poorly sorted; siltstone clast.
40-50	Gravel, Shell - light olive gray (5y 5/1); sparse clay; 50% shell fragments; very fine to pebble, subangular, poor sorting; 50% glauconite; shell fragment - oyster, barnacle, Mulina, Turritella, Policines, Pecten.
50-60	Gravel, Shell - light olive gray (5y 5/1); 80% shell fragments; 20% sand; very sparse clay; very fine to pebble, subangular, some rounded, poorly sorted; 20% Glauconite; bryozoa; Dentalium.
60-70	No Sample.
70-80	Gravel, Shell - light olive gray (5y 5/1); 80% shell fragments; 20% sand; very sparse clay; very fine to pebble, subangular, some rounded, poorly sorted; 10% Glauconite; Dentalium; 1% mica.
80-90	Gravel, Shell - light olive gray (5y 5/1); 50% shell fragments; very sparse clay; very fine to very coarse, subangular, some rounded, poorly sorted; 10% glauconite; 1% mica.
90-100	Sand - light olive gray (5y 5/1); moderate clay; very fine to very coarse, subangular, some rounded, poorly sorted; 10% glauconite; 25% shell fragments.
100-110	Sand - light olive gray (5y 5/1); very sparse clay; very fine to very coarse, subangular, some rounded, poorly sorted; 20% glauconite; 20% shell fragments.
110-120	Sand - light olive gray (5y 6/1); medium, subangular, some round, well sorted; 10% glacuonite; 1% shell fragments.

Depth (feet)

- 120-130 Sand light olive gray (5y 6/1); sparse clay; medium to very coarse, subangular some rounded, moderate sorting; 20% glauconite; 1% shell fragments; phosphate fragments.
- 130-140 Sand light olive gray (5y 6/1); very sparse clay; fine to coarse, subangular, some round, moderate sorting; 10% glauconite; 5% shell fragments; bone fragments.
- 140-150 Sand moderate olive gray (5y 5/1); abundant clay dark yellow orange and moderate olive gray clasts; fine to coarse, subangular, some rounded, poor sorting; 10% glacuonite/ phosphatic fragments; 5% shell fragments.
- 150-160 Clay light olive gray (5y 5/2); abundant sand; fine to very coarse with some granules subangular, poor sorting; 10% glauconite/phosphatic fragments; 25% large shell fragments.
- 160-170 Sand moderate olive gray (5y 5/1); moderate clay; medium to coarse, subangular, moderate sorting; 25% glauconite; 3% small shell fragments.
- 170-180 Sand, Glauconite olive gray (5y 3/1); abundant clay; sparse sand; medium to very coarse, subangular, modiscernable sorting; 70%+ glauconite; 1% shell fragments; foram-Nonion; pyrite in clay clasts.
- 180-210 Sand, Glauconite olive black (5y 2/1); very sparse clay; very sparse sand; medium to very coarse, subangular, no sorting; 95%+ glauconite; sparse shell fragments; pyrite; shark tooth at 200-210.
- 210-220 Sand light and dark gray abundant clay; fine to very coarse, angular, poor sorting; 45% glauconite; sparse shell fragments; mica; shark tooth.
- 220-230 Sand yellowish gray (5y 8/1); moderate clay; fine to very coarse, angular, subangular, poor sorting; 30% glauconite; (1) shell fragments.
- 230-240 Sand, Glauconitic light and dark gray; moderate clay; fine to very coarse, angular, poor; 50% glauconite; few sand clasts; pebble; mica.
- 240-250 Gravel light olive gray (5y 6/1); granules, angular, sub-angular; well sorted (1) shell fragment; feldspar, garnet.

Depth (feet)

- 250-260 Sand light olive gray (5y 6/1); medium to very coarse, some granules, angular and subangular, moderate sorting; 15% glauconite; fine; mica; garnet, feldspar.
- Sand light olive gray (5y 6/1); medium to granule, subangular, moderate sorting; garnet, feldspar; 260-270. Few grains of glauconite; 270-280 8% glauconite.
- 280-320 Sand light olive gray (5y 6/1); medium to very coarse, subangular, angular, moderate sorting; 280-90-8% glauconite; 290-320-few glauconite grains; garnet; feldspar.
- 320-330 Sand light olive gray (5y 6/1); medium to granule angular, subangular, poor sorting; 20% glauconite, rare shell fragments; garnet, feldspar.
- 330-350 Sand light olive gray (5y 5/2); abundant clay; very fine to granule, angular, subangular, poor sorting; 20% glauconite; very rare shell fragments; iron oxide; phosphate nodules garnet; mica; phosphate fragments.
- 350-370 Sand light olive gray (5y 6/1); sparse clay; very fine to very coarse, some granules, poor sorting; 3% glauconite; 1% mica; garnet; 360-370 very sparse clay and 10% glauconite.
- 370-400 Sand light olive gray (5y 6/1); very sparse clay; very fine to very coarse, angular, subangular, poor sorting; few glauconite grains; shell fragments; feldspar; iron oxide staining; 390-400 to granule size.
- 400-410 Sand light olive gray (5y 6/1); very sparse clay; coarse grained with some very fine and some granules, angular and subangular, poor sorting; feldspar, garnet.
- 410-430 Sand light olive gray (5y 6/1); very sparse clay; very fine to granule, angular and subangular, poor sorting; 20% glauconite; shell fragments; feldspar; garnet.
- 430-440 Sand light olive gray (5y 6/1); no clay; medium to granule, subangular and angular, moderate sorting; feldspar; garnet.
- Sand light olive gray (5y 6/1); no clay; very fine to granule subangular and angular; poor sorting; 15% glauconite; shell fragments; feldspar; garnet.

Logged by: J. K. Polzin August 7, 1980