## COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES OFFICE ADDRESS:

Box 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

McCormick Road

COMPLETION REPORT Colottesville, VA 22903 WATER WELL Charlottesville, Virginia \_\_\_\_\_ Mailing Address: \_\_\_ Reedville, Virginia Smith Seafood OWNER: \_\_ \_\_\_\_\_ Mailing Address: TENANT: \_\_\_ DRILLER: Douglas & Dickinson, Inc. Mailing Address: Box 498, Warsaw, VA WELL LOCATION County Northumberland (Reedville) Approx. 0.60 WEST W. of intersection (direction) of and 50 teet SW (direction) of 658 deadend State Rts. 657 & 658 (GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.) DATE STARTED: 10-4-71 DATE COMPLETED: 10-7-71 TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH\_ 718 WATER LEVEL: Stands 20 feet below surface OR has NATURAL flow of\_\_\_\_\_gallons per minute. YIELD TEST: Method Air HOLE SIZE: 91/2 inches from 0 to 105 feet Drawdown \_\_\_\_\_55 \_\_\_\_feet 6 inches from 105 to 210 feet Rate 40 gal. per min. 4 inches from 210 to 718 feet Duration 6 hrs., min. SCREEN SIZE: 2 inches from 688 to 708 feet WATER ZONES: from 688 to 708 feet \_\_\_\_inches from \_\_\_\_\_to \_\_\_\_feet inches from \_\_\_\_\_\_to\_\_\_\_Sfeet from\_\_\_\_\_to\_\_\_\_feet CASE SIZE: 4 inches from 0 to 210 feet from \_\_\_\_\_feet 2 \_\_inches from 210 \_\_to\_\_ 688 \_\_feet WATER: Color clear Toste normal Odor\_\_\_none\_\_\_Temp.\_\_\_\_55 or 2 inches from 708 to 718 feet GROUTING: Method \_\_\_\_ Pressure WELL TO SUPPLY: (check one) Home Material cement Depth 105 feet Farm \_\_\_\_\_ Town \_\_\_\_ School \_\_\_\_\_ Type \_\_\_\_submersible \_\_\_\_ Industry\_\_\_XX\_\_Other\_\_\_ PUMP: Capacity 32 @ 30 PSI gal per min WATER ANALYSIS AVAILABLE:Yes \_\_\_\_\_No\_XX (68) Yes XX No \_\_\_\_ Depth of intake 105 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.) R ARKS:\_\_\_\_

FURNISHED BY: Douglas & Dickinson, Inc.

DATE: 10-20-71

DEPTH (feet)		TYPE OF ROCK OR SOIL PENET	
FROM	TO pai	(gravel, clay, etc., hardness, color	, etc.) (water, caving, shot, screen, sample, etc.)
0	10	orange sand	TWANTS
10	20	light sand	povelas a Maddinson, Inc.
20	32		our thearmorn a Revision
32	42	sand & small gravel	Northwiseriayi (Reedville
42	52	grey clay	CONTRACTOR OF THE PROPERTY OF
52	63	1 10 10	State Rts. 657 a 658
63	73	# # # 10000K	176 - 1
73	83	AVAIT NINS BURLE & ALASS ON	и овестно источность и Рег ру выпутность боль в
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114	126	an enger in content	Totales I I I I I I I I I I I I I I I I I I I
126	136		
136	146	# # RO REGILE	STORY LOVERS SHOULD AND MAN BELLOW
146	158	" "	
158	168	materina ing arelles	No work a Recent case
168	178	II II	
178	190	Book and a 28 and a row	TEA COMP TEST OUT
190	200	- п п	
200	210	for many to the good and and	32
210	220	129 M29 M29	
220	232	grey clay & shell	rate is a talk in talk in talk
232	242		
242	252	2 - 11 - 11 - 2 11 3 118 11 (312)	11 - 11 - 11 - 1 - 1 - 1 - 1 - 1 - 1 -
252	262		AAT
262	273	month sentent m	TER ZONES ( 568 1 708 1.61
273	283	, , , , , , , , , , , , , , , , , , ,	
283	293	" " "	8.81
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305	315	The state of the s	The second of th
315	325	grey clay	Learen clear commal
325	336	Tana II and II a	Tentou
336	346		te 22 may anon sale
346	356	H H	anon sales
356	369		
369	379	grey clay & shell	TO SUPPLY THE RESERVE OF JUS
379	391		and all the said of the said
391	402		The second of th
402	412	James " submersib	30 erő 22 czenicz
412	424		
424	434	29 08 9 88	XX and a law of the Salada way of the Laws and the
434	446		
446	456	grey clay	(83)
456	466	THE PART OF STREET	I full a way to distribute on a constant of the con-
466	476	grey clay & sand	MAIRROY LINE OF THE PARTY OF A PROPERTY OF A
476	488	" " "	
488	500	" " "	
500	510	" " "	
510	524	11 11 11	
524	534	144	
534	546	N	
		(continued)	

## LOG (Continued)

Owner: Smith Seafood
Driller: Douglas & Dickinson, Inc.
County: Northumberland (Reedville)

W# 3395 C# 151

Depth (feet)

From	To	Type of rock or soil penetrated
546	556	grey clay & shell
556	568	11 11 11
568	578	п п
578	588	grey clay
588	598	п п
598	608	grey sand & shell
608	618	п п
618	628	н н н
628	638	и и и
638	648	п п п
648	658	и и и
658	668	light sand
668	678	и и
678	688	11 11
688	698	11 11
698	708	light & grey sand
708	718	и и и

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

## INTERVAL SHEET

Page 1	of 1		Well Repository No.:	C-151 W- 3395
rage 1	01 1		well Repository No	5555
Date rec'd:	12-20-71 Date Processed:	3-15-72	Sample Interval: from	n 0 to: 718
PROPERTY:	Smith Seafood		Number of samples:	68
COMPANY:	Douglas & Dickinson		Total Depth:	718'
COUNTY:	Northumberland		Oil or Gas: Water:	XX Exploratory:
From-To	From-To	From-To	From-To	From-To
FI OIII-TO	F F OIII - 10	From-To	FION-TO	F10m-10
0-10	315-325	638-648	t <del>-</del>	_
10-20	325-336	648-658	_	-
20-32	336-346	658-668	-	-
32-42	346-356	668-678	/ <del>-</del>	-
42-52	356-369	678-688	i, <b>-</b>	-
52-63	369-379	688-698	_	_
63-73	379-391	698-708	_	-
73-83	391-402	708-718	#	-
83-94	402-412	-	<del>2</del>	<u>-</u>
94-104	412-424	:	-	-1
104-114	424-434	-	-	-
114-126	434-446	-	=:	
126-136	446-456	-	=	_
136-146	456-466		=	_
146-158	466 - 476	_	<u>~</u>	-
158-168	476-488	_	-	-
168-178	488-500	-	_	9-
178-190	500-510	-	-	_
190-200	510-524	=	=	: <u>-</u>
200-210	524 - 534	7	-	=
210-220	534-546	-	-	-
220-232	546-556	-	_	_
232-242	556-568	-	=	_
242-252	568 - 578	-	_	-
252-262	578 - 588	-	-	-
262-273	588-598	-	_	_
273-283	598-608	-	-	-
283-293	608-618	_	-	-
293-305	618 -628	_	<u>-</u>	<del></del>
305-315	628 -638	-	~	

All intervals have both washed and unwashed samples.

Owner: Smith Seafood
Driller: Douglas & Dickinson
County: Northumberland

C# 151 Total Depth: 718' Quad: Reedville Elev: 718'

W# 3395

Depth (feet)	WELL LOG
0-10	Sand - dark yellowish brown (10YR 5/6); very sparse clay (on granules); medium to granule, subangular, poorly sorted; iron oxide staining on grains.
10-32	Sand - very pale orange (10YR 8/2); very sparse clay on granules; medium (10-20') and medium to very coarse (20-32'), subangular, well to moderate sorting; few grains glauconite; iron oxide fragments.
32-42	Sand - dark yellowish orange (10YR 6/6); very sparse clay in sand clasts; medium to granule, subangular, poorly sorted; few grains glauconite.
42-52	Clay - pale yellowish brown (10YR 6/2); clay in gray and pinkish brown clasts; moderate sand, medium to granule, subangular, poorly sorted; few grains of glauconite; brown (organic?) stains on clay; mica.
52-62	Clay - light olive gray (5Y 5/2); abundant sand fine to medium, subangular, poorly sorted; 5% glauconite; very rare shell fragments.
63-146	Clay - light olive gray (5Y 6/1); clay in fine pellets; abundant sand, fine to medium, subangular, poorly sorted; few rounded pebbles at 104-114' and 126-136'; 8%- glauconite; 1% at 126-146'; very rare shell fragments; mica.
146-190	Clay - light olive gray (5Y 6/1); abundant sand, fine at 146-168' and fine to coarse at 168-190', subangular, well sorted and moderately well sorted at 168-190'; few glauconite grains; diatoms; mica.
190-210	Clay - light olive gray (5Y 5/1); abundant sand; fine to coarse with some pebbles at 190-200', subangular, moderate sorting; very few grains of glauconite; mica.
210-293	Clay - light olive gray (5Y 6/1); very abundant sand; fine to coarse, subangular, moderate sorting; forams at 283-293'; mica.
293-369	Clay - light olive gray (5Y 6/1); clay in fine pellets; sparse sand, <u>fine</u> to coarse, subangular, poorly sorted, some granules at 356-369'; abundant diatoms; echinoderm spines; forams - Robulus (L), <u>Bolivina</u> , <u>Textularia</u> , <u>Globigerina</u> , <u>Planularia</u> (?), <u>Siphogenerina</u> , <u>Nonion</u> ; ostracods at 315-325'.

Owner:

500-510

Depth (feet)	
369-379	Clay - light olive gray (5Y 4/1); abundant sand, coarse to granule, subangular, poorly sorted; 8% shell fragments; 5% forams - Siphogenerina, Robulus, Nonion, Globigerina, Textularia.
379-402	Sand - light olive gray (5Y 6/1); sparse clay; medium to granule, subangular, poorly sorted; very few grains glauconite; 40% shell fragments; forams - Robulus.
402-412	Sand - light olive gray (5Y 5/1); moderate clay; fine to very coarse, subangular, poorly sorted; few glauconite/phosphate fragments; 10% shell fragments; forams - Quinqueloculina, Planularia.
412-434	Sand - light olive gray (5Y 6/1); sparse clay; fine to very coarse, subangular, poor sorting; 1% phosphate fragments; 8% shell fragments at 412-424 and 3% at 424-434; broken forams; clear blue-green "glassy" fragment.
434-446	Sand - light olive gray (5Y 6/1); very sparse clay; fine to very coarse, subangular, poorly sorted; 3% phosphate fragments; 3% shell fragments; echinoderm spines; garnet.
446-456	Clay - light olive gray (5Y 5/1); sparse sand; 50% forams; fine to very coarse, subangular, poorly sorted; 3% phosphate fragments; 3% fine shell fragments; forams - Cibicides, Nonion, Amphistegina, Quinqueloculina, Globigerina, Robulus (L), Bolivina, Discorbis, Siphogenerina, Guttulina, Bolivina; ostracods; mica.
456-466	Sand - light olive gray (5Y 5/1); abundant clay; 50% forams; fine to very coarse and some granules, subangular and angular, poorly sorted; 3% phosphate fragments; 3% shell fragments; echinoderm spines; forams - Nodosaria, Cibicides, Amphistegina, Robulus, Guttulina, etc.; ostracods; mica; pyrite nodules.
466-488	Gravel, Glauconitic - mixed colors; 50% glauconite; medium to granule and dark green, granules to pebbles, subrounded to rounded, moderate sorting; moderate clay with sparse sand in smaller grain sizes at 476-485; limestone/glauconite clasts; 3% forams - several genera.
488-500	Gravel, Glauconitic - light and dark green; 50% glauconite; medium to large granules, subangular to subrounded, poorly sorted; forams; iron oxide staining.

Sand, Glauconitic - light and dark green; 50% glauconite; medium

iron oxide staining; rose quartz.

to small granules, subangular to subrounded, poorly sorted; forams;

Sand, Glauconitic - greenish black (5G 2/1); 95+% glauconite; very sparse clay in clasts; medium to small granules, subangular to subrounded, poorly sorted few grains; 1-2% shell fragments; very sparse forams/ostracods.

-3-

- Sand, Glauconite light and dark gray; 85% glauconite; sparse to moderate clay; sparse sand; fine to granule, subangular to subrounded, poorly sorted; very rare shell fragments; forams Nodosaria; ostracods; pyrite.
- Sand, Glauconitic light and dark green; 90% glauconite; sparse clay; sparse sand; fine to granule, subangular to subrounded, poorly sorted; very rare shell fragments; forams; ostracods; pyrite.
- 568-598 Clay, Glauconitic light and dark gray; 50% glauconite; sparse sand; fine to very coarse, subangular to subrounded, poorly sorted; very rare shell fragments; forams Robulus (L).
- 598-618 Sand, Glauconite, Clay light and dark gray; 50+% glauconite; moderate clay; sparse sand; fine to very coarse, subangular to subrounded, poorly sorted; 40+% large (orange) shell fragments; forams; some limestone on shell fragments.
- Sand, Glauconitic greenish black (5G 2/1); 95+% glauconite and 80+% at 628-638; sparse to very sparse clay; sparse sand; fine to very coarse, subangular to subrounded, poorly sorted; very rare shell fragments; forams Dentalina (2 species); pyrite; iron oxide.
- 638-658 Clay pale yellow brown (10YR 6/2); abundant sand; fine to coarse, subangular, poorly sorted; 40% glauconite; very rare shell fragments; forams.
- Sand yellowish gray (5Y 7/2); 658-688 very sparse clay in small clasts \$\\$,698-708 sparse clay and 708-718 moderate clay; medium to coarse and granules at 688-698 , subangular with some angular at 658-668, poorly sorted; decreasing amounts of glauconite (15% to 5% at 688-698), but 40% at 708-718; feldspar; mica; garnet.

Logged by: J. K. Polzin September 2, 1980