COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS: DIVISION OF MINERAL RESOURCES OFFICE ADDRESS:

Bo~ 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Colottesville, VA 22903 WATER WELL COMPLETION REPORT Charlottesville, Virginia

	DIAN EL LION IVEL OLLI
OWNER:Walt Robbins	6121 Lincolnia Road Mailing Address: Alexandria, VA 22312
TENANT: Tides on Chesapeake palyxsv ; Dase	5 21 Fine and coarse cravil; walke
DRILLER: Douglas Drilling Company Varia 30 add	Mailing Address Warsaw, Virginia 22572
WELL LOCATION: County Northumberland	Approx. v1.1 vb miles fove NE on the (direction) of
Intersection of Rt. 644 & Rt. 651 and 1000	feet south mas (direction) of Smith Point Ligh
(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: 10/3/77	DATE COMPLETED: base 10/7/77
TYPE OF DRILL RIG USED: Rotary	420 Some gray sand: gray-coon cla
the second secon	
WATER LEVEL: Stands 11 feet below	
has NATURAL flow of_	430 441 Black and gray sand, varying a
YIELD TEST: Method Air lift valo yard	HOLE SIZE: 11 inches from 0 to 250 feet
	3-7/8 inches from 252 to 778 feet
52 , bas said	ASU 546 Sandy gray clay; files and cott
	teet of montsendingeamy shells coerse
Duration 48 hrs., min.	SCREEN SIZE: See Thinches from to feet
WATER ZONES: from 778 to 798 feet	2 12 inches from 778 to 798 feet
fromtofeet	reserve bas year . I sinches from to feet
from to feet	CASE SIZE: 4 binches from 0 to 252 feet
with cross	Standard (Laminim) bras year E80 100
WATER: ColorTaste	Schedule 355 1d 2 moinches from 252 to 778 feet to 40d bas patiety, bear years 387
Odor°F	Galvanizedinches fromtofeet
WELL TO SUPPLY: (check one) Home hm.	GROUTING: Method Tremmie Pipe
	degrees of coarseness) and de
	PUMP: Type Not Yet installed
IndustryOther_Subdivision	Type Not let installed Type Not let installed Type Not let installed
WATER ANALYSIS AVAILABLE: Yes No XX	brusa Capacity estimate gal per min
DRILL CUTTINGS SAVE.D: Yes_XX_No	Depth of intakefeet
(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT IN OFFICE EXPRESS COLLECT, SAMPLE BAGS ARE FURNISHE	
R ARKS: This is a Class II Type B Well of mate	erial & construction as per specifications of
Virginia Health Department publication "Drilled N	Wells for Public Water Supply" dated 9 Feb. 1970
Drill Cutting Samples delivered to VSWCB. Copie	s of this report delivered to VSWCB, Virginia
Health Dept. Bureau of Sanitary Engineering, and	to Owner.

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED	REMARKS	
FROM	212 OT	SOA SIA (gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, etc.	
0	5	Med. and coarse white sand	win and a line of the line of	
5	21	Fine and coarse gravel; white sand; varying		
	22572	degrees of coarseness; some bits of gray clay		
21	31	10101 10100		
31	294	Gray clay; creamy shell; mixtures of black and white sand of varying degrees of	Total section of the EAA E St. Ed.	
		coarseness; black sand; lots of creamy	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
399	409	shell		
77.5		Less shell; mostly fine black sand; some gray sand	TE STARTED 10/3/77	
409	420	Some gray sand; gray-green clay; shell (creamy)	PP OF URILL RIG VASORO	
420	430	Crusty cutting; black and gray sand, varying		
120	447	degrees of coarseness		
430	441	Black and gray sand, varying degrees of coarseness; gray shell; light gray clay		
441	483	Fine and Med. gray sand; sandy gray clay		
483	493	Sandy gray clay; coarse black sand; fine gravel	ELD TEST NAME Air lift	
493	546	Sandy gray clay; fine and coarse gravel;	10	
546	588	bits of creamy shell; coarse black sand Fine black sand; fine and coarse gravel;	S2 . 441 Bas	
588	609	sandy grain sand Gray clay; fine and med. black sand; fine		
80	282	and med. gray sand	278 FORCE OF \$78	
609	651	Varying degrees of black sand, gray sand, creamy shell, gray and green clay		
651	661	Med-Coarse gray sand; gray clay; some		
661	693	black sand Gray sand (minimal); gray clay with green	mev1 *	
693	756	specks; some black sand Gray, red, white, and brown clay; black		
001	200	sand; fine gray sand sviso		
756	777 eqiq	Gray, white, red, and brown clay-very sandy increasing amounts of gray sand (varying		
	100	degrees of coarseness) and decreasing amounts of black sand		
777	808	Coarse gray sand; little bits of multi-		
808	834	Increasing amounts of clay; decreasing		
	100	amounts of gray sand		
and the same		oficts to displicate X		
8 THT 13	-399 mg	SH FAM REGUNAL BRANC REGISTER CONTROL OF THE PRESENT MOTO BEACH TO REAL COMPRISE A STREET		
Jo as	ificatio	B Well of material & construction as per spec	This is a Class II Type	
TOI .di	ated 9 T	tion "Drilled Wells for Public Water Supply" o	rginia Health Department publica	
sinip	WCB, Vi	VSWCR. Copies of this repurt delivered to VS	cill Cutting Samples delivered to	
		inesting, and to Owner.	alth Dept. Equest of Sanitary Eng	

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

INTERVAL SHEET

					C-167
F	age l	of 1		Well Repository No.:	W- 4956
				who produced to the production of the production	
Ι	Date rec'd:	11/18/77 Date Processed:	1/6/78	Sample Interval: from	0 to: 834
P	ROPERTY:	Walter Robbins		Number of samples:	79
		Tides on Chesapeake			
C	COMPANY:	Douglas Drilling Co.		Total Depth:	834'
C	COUNTY:	Northumberland (Smith Point	=)	Oil or Gas: Water:	XX Exploratory:
	From-To	From-To	From-To	From-To	From-To
	0-10	316-326	631-642	-	-
	10-21	326-337	642-652	<u>-</u> -	
	21-31	337-347	652-663	-	-
	31-42	347-358	663-673	- >	-
	42-52	358-368	673-684	-	-
	52-63	368-379	_	_	=
	63-73	379-389	693-703	_	_
	73-84	389-400	703-714	_	_
	84-94	400-410	714-724	_	_
	94-105	410-421	724-735	_	_
		124 122			
	105-115	421-431	735-745	-	-
	115-126	431-442	745-756	_	-
	126-136	442-452	756-766	_	-
	137-147	452-463	766-777	-	-
	147-158	463-473	777-787	=	-
	158-168	473-484	787-798	_	≅
	168-179	484-494	798-808	_	
	179-190	494-505	808-819	_	_
	190-200	505-515	819-829	_	_
	200-211	515-526	829-840	_	_
			010		
	211-221	526-537	-	_	Ξ.
	221-232	537-547	-	-	=
	232-242	547-558	-	-	-
	242-253	558-568	-	-	-
	253 - 263	568-579	=	#	=
	263-274	579-589	_	_	_
	274-284	589-600	_	_	_
1	284-295	600-610	_	_	_
)	295-305	610-621	_		
	200-505	010-021	9-		

Washed and unwashed samples

621 -631

305-316

	Elev: 6'
Depth (feet)	WELL LOG
0-30	Gravel - mixed colors; medium to pebble, angular to rounded, poorly sorted.
31-52	Clay - light olive gray (5Y 6/1); abundant gravel; medium to pebble, angular to rounded, poorly sorted; 5-2% large shell fragments - oyster.
52-63	Clay - light olive gray (5Y 6/1); abundant sand; medium to granule, subangular, moderate sorting; 2% shell fragments.
63-73	Clay - pale yellowish brown (10YR 6/2); abundant sand; medium to granule, subangular, moderate sorting; 3% shell fragments; mica.
73-94	Clay - light olive gray (5Y 6/1); abundant sand; medium to rounded granules, subangular, poorly sorted; 10-20% large shell fragments - Turritella, oyster; mica.
94-105	Clay - light olive gray (5Y 5/2); abundant sand; some reddish clay clasts; medium to rounded pebble, subangular, poorly sorted; few grains of glauconite; 25% large shell fragments; mica.
105-147	Sand - light olive gray (5Y 6/1); abundant clay; medium to granular, subangular, moderate sorting; 10% fine shell fragments; brown stains on some clay clasts.
147-190	Clay - light olive gray (5Y 6/1); abundant sand; fine to granule, subangular, moderate sorting; 1% fine shell fragments - 147-168' - Turritella, Dentalium.
190-274	Sand - light olive gray (5Y 6/1); abundant clay; fine to granule, rounded pebbles at 211-221', subangular, moderate sorting; alternating 8% and 3% fine shell fragments; chela of crab - 211-221'; forams - Robulus - 242-253'.
274-305	Clay - yellowish gray (5Y 6/2); abundant sand; fine, granular, subangular, well sorted; very sparse diatoms; forams - Robulus; echinoderm spines at 284-305'.

W# 4956 C# 167

Total Depth: 834' Quad: Burgess

Owner: Walter Robbins
Driller: Douglas
County: Northumberland

Walter Robbins

W# 4956 C# 167

Depth (feet)

- 305-368 Clay yellowish gray (5Y 6/2); abundant sand; fine, granules, subangular, moderate sorting; very few shell fragments at 305-316'; diatoms; forams Nodosaria 305-316'; echinoderm spines at 316-326'; forams again at 358-368' Robulus, Siphogenerina; some (5Y 5/2) clay clasts.
- 368-379 Clay light olive gray (5Y 5/2); abundant sand; fine to granule, subangular, poorly sorted; forams Robulus, Siphogenerina, Planularia, Nonion, Discorbis.
- 379-400 Sand light olive gray (5Y 6/1); 50% shell fragments; moderate clay; medium to granule, angular to subangular, poorly sorted; few glauconite; tooth.
- Sand light olive gray (5Y 6/1); sparse to moderate clay; medium to granule, angular to subangular, poorly sorted; 25-30% shell fragments.
- 421-442 Sand light olive gray (5Y 6/1); 50% shell fragments; sparse clay; medium to granule, angular to subangular, poor sorting; 10% fine glauconite in some limestone clasts.
- Sand light olive gray (5Y 6/1); sparse clay; medium to very coarse, subangular, moderate sorting; 10% fine glauconite; 40% shell fragments; forams.
- Sand, Glauconitic light olive gray (5Y 6/1 and at 463-473, 5Y 5/2); abundant clay; 50% glauconite; medium to very coarse, subangular, moderate sorting; 40+% fine shell fragments; forams 10% at 452-463; ostracods.
- 484-494 Gravel, Glauconitic light and dark green; 90% glauconite, medium and green dark green; sparse clay; sparse sand; medium to very coarse, subangular, poor sorting; 15% fine shell fragments; forams.
- 494-505 Gravel, Glauconitic light and dark green; 50% glauconitic; very sparse clay; very sparse calcium carbonate powder; medium to pebble, subangular and rounded, poorly sorted; 10% fine shell fragments.
- 505-526 Sand, Glauconitic light and dark green; 50% glauconite; very sparse clay; medium to granule, subangular, poorly sorted; rare shell fragments.

Owner:

Walter Robbins

W# 4956 C# 167

Depth (feet)

- Sand, Glauconitic light and dark green; 90% glauconite; sparse clay moderate at 547-568'; sparse sands at 526-547'; medium to granule, subangular, poorly sorted; rare shell fragments; forams 526-547'; ostracod at 547-558'.
- Clay, Glauconitic light and dark green; 50% glauconite; abundant sand 568-589 and 610-620 moderate from 589-610; medium to granule, subangular and rounded, poorly sorted; madreporite at 568-578; rare shell fragments at 610-620; forams and ostracods in clay clasts; mica 579-610.
- 620-631 Gravel, Shell, Glauconitic light and dark green; 60% glauconite; sparse clay; sparse sand; medium to granule, subangular, poor sorting; 30% shell fragments; large orange fragments.
- 631-642 Sand, Glauconite light and dark green 60% glauconite; moderate clay; fine to granule, subangular, poor sorting; 5% shell fragments; feldspar; garnet.
- Sand, Glauconitic light and dark green; 50% glauconite; abundant clay; fine to granule, subangular, poorly sorted; rare to very rare shell fragments; feldspar; garnet; mica from 652-703; at 693-703 some finely ground shell fragments/forams in a few clay clasts.
- 684-693 No Sample.
- 703-714 Clay, Glauconite grayish yellow (5Y 7/2); 50% glauconite; abundant sand; fine to granule, subangular, poorly sorted; some red clay clasts; some light and dark gray clay; forams; mica.
- 714-776 Sand, Glauconitic light and dark brown; 50% glauconite; clay sparse at 714-735' and abundant at 735-776'; rose, red, yellow, white clays at 756-766'; fine to very coarse, subangular, moderately sorted; very rare shell fragments; mica; feldspar at 735-745'.
- 777-834 Sand light olive gray (5Y 6/1); sparse clay very sparse at 777-787'; very fine to very coarse with granules at 787-798', subangular and angular, moderate sorting; few glauconite grains; feldspar 808-834'; garnet at 829-834'; some clay clasts with shell fragments/forams probably contamination from other levels.

Logged by: J. K. Polzin September 26/29, 1980