COMMONWEALTH DEPARTMENT OF CONSERVATIO	OF VIRGINIA W#: 3661 C#: 183
B 3667 JAMES L. CALVE	ERAL RESOURCES OFFICE ADDRESS: R, COMMISSIONER McCormick Road OMPLETION REPORT Charlottesville, Virginia
CENERGY CONTRACTOR	
	P.O. Box 679 Mailing Address: <u>Fredericksburg, VA 22401</u>
TENANT: George Washington Birthplace, VA, Well #	
DRILLER: Sydnor Hydrodynamics, Inc.	P.O. Box 27186 Mailing Address: Richmond, VA 23261
WELL LOCATION County Westmoreland	Approx. 2 miles North (direction) of
St. Hwy 3 near Potomac Mills and 500	feet Northwest (direction) of St. Rt. 204
(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: 7/26/72	DATE COMPLETED 9/5/72
TYPE OF DRILL RIG USED: Rotary	Liv base ville Josid bas ysrb OAL 001 TOTAL DEPTH 360feet
	Sio base will a coold bas (Completed @ 326')
WATER LEVEL: Stands 28'10" feet below	225 Tangh gray clay AD 225 210 Pink clay
has <u>NATURAL</u> flow of	ddid vegallons per minute: 000 000
YIELD TEST: Method Submersible pump	HOLE SIZE: 15 inches from 0 to 260 feet
Drawdown <u>74°10"</u> feet	brase los <u>18</u> inches from <u>260 to</u> <u>335</u> feet
Rate <u>50</u> gal. per min.	<u>9 7/8</u> inches from <u>335</u> to <u>360</u> feet
Duration <u>8</u> hrs., min.	SCREEN SIZE: 6 inches from 266 to 271 feet 6 283 288
WATER ZONES: from 266 to feet	<u>6 inches from 293 to 298 feet</u>
283 288 from <u>293</u> to <u>298</u> feet	6_inches from _306_to321_feet
from <u>306</u> to <u>321</u> feet	CASE SIZE: <u>6</u> inches from <u>+18"</u> to <u>266</u> feet 6 271 283
WATER: Color Clear Taste	<u>6</u> inches from <u>288</u> to <u>293</u> feet <u>6</u> 306
OdorTemp °F	6_inches_from321_to326feet
WELL TO SUPPLY: (check one) Home	GROUTING: MethodPressure
FarmTownSchool	Material <u>cement-water</u> Depth 171 feet
IndustryOther_Park	PUMP: Type
WATER ANALYSIS AVAILABLE:Yes XX No	Capacitygal. per min
DRILL CUTTINGS SAVED: Yes XX No (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT IN OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHE	
RARKS:Electric log ran by driller - no c	copy available.
1 * **********************************	(LOG OF WELL) OVER

ATHING IN A LOG COAST HUM NO D

ESI LOG FURNISHED BY: ______Sydnor Hydrodynamics, Inc. _____DATE: ______DATE: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED	REMARKS			
ROM	то	errole (gravel , clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, etc			
		e, va, vell #2 bed.e.e	rwawr Goerge Washington Birthplac			
0	2	Top soil				
0	2 18		LLER Sydnor Hydrodynamics, Inc.			
2	10	Brown sand and gravel some clay				
10	20	Gray sand and gravel	ILL LOCATION COUNTY Wastmorels			
20	30	Gray sand	The second			
30	40	Gray-brown sand and gravel	St. Hwy 3 near Potomac Mills			
40	47	Brown clay				
47	70	Green clay	RD (533 W) BONATOD ONA WINTOSHO BO			
70	90	Gray sand	LEAN RIGIC RO YAWREN YIND,			
90	100	Shells and sand	TE STARTED 7/26/72			
100	140	Gray and black silty sand with shell and	on - mon subscription designment of a 1 mm (g - a 1			
	36.0		A STATE OF DRILL AIG USED			
140	210	Gray and black silty sand clay	Parameter Balaciana china an an			
210	225	Tough gray clay	TER LEVEL STATES 28'IO"			
225	230	Pink clay				
230	240	Green, gray, sandy clay with rock streaks				
240	250	Pink clay	INUTAN CON			
250	252		ELD TEAT WORK Submarsible 1			
		Sand FOCK	The state to the second is a fight of a			
252	270	Green, gray, pink clay with silty sand	Didwa see 74110"			
270	282	Green, gray, black sand	1			
282	283	Sand rock				
283	310	Gray, black silty sand	a state with the second state of the second st			
310	315	Shell rock and sand	a solo and a solo wa			
315	355	Brown, black sand	and the second s			
355	360	Pink clay	TER ZONES, 1770 206 N			
10 103	2 30					
	2 P82-		305 305			
	771. 2					
	88 2	MAN LANS B	TEN own Clear Tests			
	S (198					
	121 3		0.698			
	6	OROUT1146 WARGE	LL TO SUPPLY TO HER DALLARS			
	1 1		Contraction (Aberla) (La Holas () 30.			
	17.1	sa Malaw-juanso	Feed			
			10 10 1			
			Park			
			ZERRIBIEAUAVA ELEVIANA BAN			
			A REAL PROPERTY OF A REAL PROPERTY AND A REAL OF			
			NL CUTTNES BAYED TH			
	1.0399-02					
			ILL CUTTAGE SMCLLS BE AND LLD			
		riller - no copy available.	Lest Electric log ran by B			
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		711	1			
		(Use additional forms if necessary				

(Use additional forms if necessary)

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

INTERVAL SHEET

	Page	e l	of	1			Well Rep	posit	cory No	W#: 3661	
	Date	e rec'd	: 1/18/72	Date	Processed:	1/26/73	Sample]	Inter	cval: fi	C#: 183 com: to: 0 30	50
	PROPERTY: COMPANY:		National Park Service (George Washington Birthplace) #3 Sydnor Hydrodynamics			Number o	of sa	amples:	36		
						#3	Total De	epth:	: 360'		
	COUI	NTY:	Westmorelar	nd			Oil or (Gas:	<u>Water</u> :	Explorato	ry:
	From	m-To	Fro	m-To		From-To		Fı	rom-To		
	0 -	10	250 -	60		-			-		
	10 -	20	260 -	70		-			-		
	20 -		270 -						-		
	30 -		280 -			-			-		
	40 -	50	290 -	3000	.ē	-			-		
_	50 -	60	300 -	10		-			-		
0	30 -		310 -			-			-		
	70 -	80	320 -	30		-			-		
	80 -	90	330 -	40		-			-		
	90 -	100	340 -	55		-			-		
3	LOO -	10	355 -	60		-			-		
	110 -	20	-						-		
	L20 -	30	-			-			-		
1	L30	40	-			-			-		
]	L40 -	50	-			-			-		
1	L50 -	60	-			-			-		
	L60 T	70				-			-		
	L70 -	80	-			-			-		
1	180 -	90	-			_			-		
j	190 -	200				-			-		
	200 -	10	-			-			-		
- 2	210 -	20	-			-			-		
	220 -	30	-			-			-		
	230 -	40	-			-			-		
	240 -		-			-			-		

All intervals have both washed and unwashed samples.

OWNER:	National Park Service	
	(George Washington's Birthplace)
DRILLER:	Sydnor Hydrodynamics	
COUNTY:	Westmoreland	

W#: 3661 C#: 183 TOTAL DEPTH: 560' QUAD: Colonial Beach S.

GEOLOGIC LOG

Depth (feet)

(1000)

- 0 10 Sand and granules -- dark yellowish orange; moderately to very heavily stained; medium to coarse grained, 60% granules; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
- 10 20 Sand -- white; slightly clayey -- grayish orange (clasts); medium to very coarse grained, 15% granules; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite; few opaques; muscovite.
- 20 30 Sand -- white; medium to coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques; muscovite.
- 30 40 Granules -- white; abundant coarse to very coarse grained sand; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 40 50 Clay -- light olive gray; some very fine to fine grained sand; 25% granules; subangular to subrounded; moderately wellsorted; quartz; some feldspar; some bluish-green and dark blue vivianite; few diatoms; muscovite.
- 50 60 As above except 5% granules; trace of vivianite.
- 60 70 Clay and granules -- light olive gray; moderate fine to coarse grained sand; angular to subrounded; moderately sorted; quartz; 7% black phosphatic material; few shell fragments.
- 70 80 Sand -- light grayish olive; coarse grained, some medium grains, few granules; subangular to subrounded; well sorted; quartz; 5% shell fragments; few flakes of muscovite; forams scarce (inc. Buccella).
- 80 90 As above plus few black phosphatic fragments.
- 90 100 As above plus some fine grains; moderately well sorted; 7% shell fragments; no forams.
- 100 110 Sand -- olive light gray; medium to very coarse grained; subangular to rounded; moderately sorted; quartz; 20% glauconite (black, brown, green); 10% shell fragments; some muscovite.

110 - 120 As above except 30% glauconite; 7% shell fragments.

OWNER: National Park Service

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Depth (feet)

- 120 130 Sand -- olive light gray; fine to coarse grained; subangular to rounded; moderately sorted; 35% glauconite; 10% shell fragments; some muscovite.
- 130 140 As above except 40% glauconite; few black phosphatic fragments.
- 140 150 Sand -- olive light gray; medium grained, some coarse grains; subangular to rounded; well sorted; 45% glauconite; quartz; 10% shell fragments; few flakes of muscovite; forams scarce (inc. <u>Cibicides</u> and <u>Buccella</u>).
- 150 160 Sand -- olive light gray; medium grained, some granules; subangular to rounded; well sorted; 70% glauconite; guartz; few shell fragments; few flakes of muscovite.
- 160 170 As above except slightly clayey; some shell fragments.
- 170 180 Sand and granules -- olive light gray; slightly clayey; medium to coarse grained, 35% granules; subangular to rounded; poorly sorted; 50% glauconite; quartz; some sandy limestone fragments; few flakes of muscovite.
- 180 190 As above except sand; 25% granules.
- 190 200 As above except 10% granules; 40% glauconite.
- 200 210 Sand -- olive light gray; moderate clay; medium to coarse grained, 7% granules; subangular to rounded; moderately well sorted; 60% glauconite; guartz; few limestone fragments; few flakes of muscovite.
- 210 220 Sand -- olive light gray; moderate clay; medium grained, some coarse grains, 5% pebbles; subangular to rounded; moderately well sorted; quartz; 40% glauconite; few flakes of muscovite.
- 220 230 Clay -- light olive gray, grayish orange pink; abundant sand; medium grained to gravel; subangular to rounded; poorly sorted; 25% glauconite; few black phosphatic fragments; forams scarce (inc. Buccella).
- 230 240 Sand -- olive gray; slightly clayey; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 40% glauconite (brown, black, green); few limestone and shell fragments; forams rare (inc. Nodosaria).
- 240 250 Clay and sand -- light olive gray, grayish orange pink; abundant clay; moderate sand; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 30% glauconite; few shell fragments; forams rare (inc. <u>Robulus</u>).
- 250 260 Sand -- light olive gray; some moderately to heavily stained grains; slightly clayey; medium to coarse grained; subangular to rounded;

OWNER: National Park Service

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Depth (feet)

moderately well sorted; quartz; 25% glauconite; few shell fragments; muscovite.

- 260 270 As above except 35% glauconite.
- 270 280 Sand -- light olive gray; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 20% glauconite; few sandy limestone and shell fragments.
- 280 290 As above except 30% glauconite; some sandy limestone and shell fragments.
- 290 300 As above except slightly clayey; 40% glauconite.

300 - 310 Coquina and sand -- light olive gray; medium to coarse grained; subangular to rounded; moderately well sorted; 60% sandy limestone fragments; 25% glauconite; quartz; some shell fragments; forams scarce (inc. Nodosaria).

- 310 320 Sand -- light olive gray; some moderately to heavily stained grains; medium grained; subangular to rounded; quartz; 35% glauconite (brown, black, green); some sandy limestone and shell fragments; forams scarce (inc. Buccella).
- 320 330 As above plus some coarse grains.
- 330 340 As above except no forams.
- 340 355 As above.
- 355 360 Sand and clay -- yellowish brown; moderate clay; abundant sand; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 3% sandy limestone and shell fragments; 2% glauconite.

Logged by: Michael T. Currie April 23, 1979