COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES OFFICE ADDRESS:

B 3667

JAMES L. CALVER, COMMISSIONER

C. ottesville, VA 22903 WATER WELL COMPLETION REPORT

McCormick Road
Charlottesville, Virginia

STEP THE PERMANENT	3 11 1 2 2 3 1 3 1 1 2 1 3 1 1 1 1 1 1 1
(ale seigmos reserve fode ponyod patow) OWNER: H. W. Robertson & Associates, Inc.	c/o Chewning Britt & Hoggard Moiling Address P.O. Box 2125 Va. Beach, Va.
TENANT: Berkeley Manor Subdivision	Mailing Address Prince George Co. Va.
DRILLER: Sydnor Hydrodynamics Inc.	Mailing Address P.O. Box 27186 Richmond, Va. 23223
WELL LOCATION: County Prince George Co.	Approx miles (direction) of
Route 632 and 5	xbexx allede yele yele he de miles <u>Eastellede (direction) of I-95</u>
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TOURTY HIGHWAY OR OTHER MAP.)	TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: 9-22-71	
TYPE OF DRILL RIG USED: Rotary	
WATER LEVEL: Stands 25'4" feet below	120 125 Mixed clay
	145 les llard you sand-clay 185 log Recontinuite gallons gentanium
YIELD TEST: MethodSubmersible	HOLE SIZE: 12 inches from 0 to 327 feet
Drawdown 45 feet	vivis to edeada visto inches from to feet
Rate 20 gal. per min.	Lavage valo bar thinches from to feet
Duration 4 hrs., 25 min.	SCREEN SIZE: 6 inches from 55 to 70 feet
WATER ZONES: from 55 to 70 feet	6 inches from 88 to 103 feet
from <u>88</u> to <u>103</u> feet	inches fromtofeet
fromtofeet	CASE SIZE: 6 inches from +18" to 55 feet
WATER: ColorTaste	6_inches from_70_to_88feet
Odor°F	——6—inches from 103—to_110—feet
WELL TO SUPPLY: (check one) Home	GROUTING: Method Pressure
Farm Town School	MaterialCement & Water Depth 50 feet
IndustryOther_Subdivision	PUMP: Type
WATER ANALYSIS AVAILABLE: Yes x No	Capacitygal per min
OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	
R ARKS: Electric and gamma log ray	

FURNISHED BY: Sydnor Hydrodynamics, Inc.

____DATE:__11/5/71

(E) Colleges with	PTH et)	TYPE OF ROCK OR SOIL PENETS	RATED REMARKS
FROM	TE HOTOH B	thing (gravel, clay, etc., hardness, color,	etc.) (water, caving, shot, screen, sample, etc
	dere	D.O. Don 2125 V	Total II. W. Tehershaen S Argentishen Ing.
	.sv	doing Address Prince George Co.	ENANT Berkeler Manor Subdivision
202	.sv 5mom	Top Soil-yellow clay	NULEA Sydner Hydrodynarics Inc.
5	10	Brown, pink, white clay - stre	
10	30	Mixed clay	ELL LOCATION Factor Prince George Co.
30	54	Gray clay - shells	
54	70:0-T	Coarse sand shells	Poute 632
70	72	Hand shells	
72	80	Green clay, shells	PART STAR BUTTERS OF STARTE OF STARTEST OF
80	90	Medium green sand clay and shel	ls
90	100	Green sand clay, streak of gray	
100	110	Coarse sand	
110	120	Red, gray clay	THE OF DRIVE RIG USED Rotary.
120	125	Mived clay	
125	145	Hard red clay	OTER LEVELS Standa 25'A" sot or'-w
145	185	Hard red sand-clay	
185	197	Red sand clay, gravel, shells	_10 mgrt _NEUTAR var
197	205	Red sand, clay, shell rock	
205	210	Red sand, clay gravel ook	SUD TEST wared _Submersible
210	230	Red sand, clay, streaks of grav	
230	240	Red clay, coarse sand	er
240	260	The second secon	
260	270	Coarse sand, red clay gravel	20 40 40 40
270	290	Red sand clay	
290	11 200 00 00	Coarse red sand clay, gravels	October 4
300	300	Coarse red sand clay	
305	327	Red sand clay, hard streaks	41 ER ZONES' nom55 70
	341	Red clay, sand, rock	
		- als at satisfar	146 EQ.(88
	2 . 00	ONSE SIZE Lauren torrett	
		3	2 7 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2
(a) (b)	3+10		ATER; coperchear
991	3	General Canada	T
		GROUTING MANAGEPTE	which is well in the 1990s of Lis
	_02	Materia Cement & Wateria	TO 028
		Publical Type	nagery Subdividion
	Log-	(1.80)2	ANALYSIS AVAILABLE W
		A STATE OF THE STA	LL GUTTINGS SAVED TELL.
	Contraction of		COLL CONTRIBE SHOULD BE COLLECTED ON BE COLLECTED.
		Markette have because at 1981 198	**************************************
			ARRE Electric and garma log may
			3.
			a.
		(Use additional forms	if necessary)

BU- 3374

COMMONWEALTH OF

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

McCormick Road

Box 3667

Charlottesville, VA 22903 WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: H. W. Roberson & Associates, Inc.	Mailing Address: P. O. Box 2125 Va. Beach, Va.
	Mailing Address: Prince George Co. Va.
보는 10kg (10kg) 등 10kg (10kg) (10kg 10kg) (10kg)	Mailing Address: P.O. Box 27186 Richmond, Va. 23223
WELL LOCATION: County Prince George Co.	Approx5milesSouth (direction) of
Route 632	miles East (direction) of 1-95
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T	WO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: 9-22-71	DATE COMPLETED: 11-5-71
TYPE OF DRILL RIG USED: Rotary	
WATER LEVEL: Stands 251411 feet below	마스트로 그렇게 되었다. 그 친구들은 이 그를 내려 내려왔다. 그들은 얼마를 들어 보고 있다면 다른 그를 다 되었다.
has <u>NATURAL</u> flow of_	gallons periominutes bas 012 202
YIELD TEST: Method Submersible	HOLE SIZE: 12 inches from 0 to 327 feet
Drawdown 45 feet	levers will be be be be seed 0.45 1.5 0.45 1.5 0.45
Rate 20 gal. per min.	inches from to feet
Duration_4_hrs.,_25_min.	SCREEN SIZE: 6 inches from 55 to 70 feet
WATER ZONES: from 55 to 70 feet	6 inches from 88 to 103 feet
from <u>88</u> to <u>103</u> feet	inches fromtofeet
fromtofeet	CASE SIZE: 6 inches from +18" to 55 feet
WATER: Color	6 inches from 70 to 88 feet
Odor	_6inches from103_to110_feet
WELL TO SUPPLY: (check one) Home	GROUTING: Method Pressure
FarmTownSchool	Material Cement & WaterDepth 50 feet
IndustryOther_Subdivision	PUMP: Type
WATER ANALYSIS AVAILABLE: Yes X No	Capacitygal. per min
DRILL CUTTINGS SAVED: Yes X No DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	Depth of intakefeet. INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS ED FREE OF CHARGE UPON REQUEST.)
REMARKS: Electric and gamma log ray	

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

INTERVAL SHEET

Page 1 of 1

Well Repository No: W# 3374

Date rec'd:11/18/71 Date Processed: 2/9/72

Sample Interval: from:0 to:325

PROPERTY: H. W. Robertson

Number of samples: 32

(Berkeley Manor)

COMPANY: Sydnor

Total Depth: 327'

COUNTY: Prince George (Petersburg)

Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To
0 - 10 10 - 20 20 - 30 30 - 40 40 - 50 50 - 60 - 70 70 - 80 80 - 90	250 - 260 260 - 270 270 - 280 280 - 290 290 - 300 300 - 310 310 - 325	0 - 0 - 0 - 0 -	
90 - 100 100 - 110 110 - 120 120 - 130 130 - 140 140 - 150	-	-	
150 - 160 160 - 170 170 - 180 180 - 190 190 - 200	-	- - - -	- - - -
200 - 210 210 - 220 220 - 230 230 - 240 240 - 250	-	- - - -	

intervals have washed and unwashed samples.

OWNER:

H. W. Robertson (Berkley Manor)

DRILLER: COUNTY:

Sydnor Hydrodynamics

Prince George (Petersburg)

W# 3374 C# 174

Total Depth: 325'

GEOLOGIC LOG

Depth (feet)

MOORINGS "UNIT" (0-20)

- 0-10 Clay - gray, yellow, red; moderate sand; medium to coarse grained some granules; subangular to subrounded; moderately sorted; quartz; some feldspar.
- 10-20 Sand and gravel - yellowish brown; moderate clay; medium grained to gravel; subrounded; moderately sorted; quartz; feldspar; few opaques.

CALVERT FORMATION (20-60')

- 20-30 Sand - light olive gray; moderate clay-gray, yellow; medium grained with some fine grains; subangular to subrounded; well sorted; quartz; feldspar.
- 30-40 Sand - light olive gray; moderate clay - gray; yellow; medium to very coarse grained, few granules; subrounded; moderately sorted; quartz; 20% shell fragments; few spines; few black phosphatic fragments.
- 40-50 Shell hash and sand-medium gray; moderate clay; fine to medium grained with some coarse grains; subangular to subrounded; moderately well sorted; 50% shell fragments; quartz; some black phosphatic material; spines; forams (inc. Amphistegina and Quinqueloculina).
- 50-60 Sand - light olive gray; abundant clay; very coarse grained to granular; subrounded; well sorted; quartz; 15% shell fragments; few black phosphatic fragments; bone fragment; forams rare (inc. Amphistegina).

PATUXENT FORMATION (60-100')

- 60-70 Sand - off white; slightly clayey; coarse grained to granular; subrounded; moderately well sorted; quartz; feldspar; few shell fragments; few grains of garnet.
- 70-80 Sand - yellowish gray; moderate clay; medium to coarse grained; subangular to subrounded; moderately sorted; quartz; some feldspar; few shell fragments.
- 80-90 As above except coarse grained to granular.
- 90-100 Sand - off white; slightly clayey; coarse to very coarse grained; subrounded; moderately well sorted; quartz; feldspar; few shell fragments.

Depth (feet)

NEWARK GROUP (100-325')

- 100-110 Sand light reddish brown; abundant clay; granular; subrounded; well sorted; quartz; feldspar; 10% shell fragments.
- 110-120 Clay and sand reddish brown; coarse grained to granular; sub-rounded; moderately well sorted; quartz; feldspar.
- 120-130 Clay reddish brown; abundant sand; medium to very coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few shell fragments; magnetite.
- 130-140 Sand reddish brown; moderate clay; medium to very coarse grained with some fine grains; subangular to subrounded; moderately sorted; quartz; feldspar; some shell fragments.
- 140-150 Clay reddish brown; moderate sand; coarse to very coarse grained, some granules; subrounded; moderately sorted; quartz; feldspar; few shell fragments.
- 150-160 Sand reddish brown; moderate clay; coarse grained to granular; subrounded; moderately well sorted; quartz; some shell fragments; opaques; pyrite.
- 160-170 Sand reddish brown; slightly clayey; coarse grained to granular; subrounded; moderately well sorted; quartz; some shell fragments; some opaques.
- 170-180 As above except granular; well sorted.
- 180-190 As above plus 10% pebbles.
- 190-200 Gravel reddish brown; moderate clay; moderate sand; coarse grained to gravel; subrounded; moderately sorted; quartz; feldspar; some shell fragments; opaques; muscovite; pyrite.
- 200-210 Sand reddish brown; slightly clayey; medium to coarse grained, 10% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few shell fragments; opaques; muscovite; pyrite.
- 210-220 As above except moderate clay.
- 220-230 As above except medium grained to granular, some pebbles; poorly sorted.
- 230-240 As above.

W#	3374	ł
WW TT	227/4	è

OWNER:	LT	TAT	Robertson
LIVVINE	11 -	VV -	RODELLZON

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Depth (feet) 240-250	As above except medium to very coarse grained; 15% granules.
250-260	Sand - reddish brown; slightly clayey; coarse grained to granular (20%), some medium grains, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
260-270	Sand and gravel - reddish brown; slightly clayey; coarse grained to gravel, some medium grains; subrounded; moderately sorted; quartz; feldspar; some opaques, muscovite.
270-280	Sand - reddish brown; slightly clayey; medium to coarse grained, some granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
280-290	As above except coarse grained to granular, 15% pebbles; subrounded.
290-300	As above except 10% pebbles.
300-310	As above except 15% pebbles.
310-325	As above except medium grained to granular, 10% pebbles.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Thickness (feet)	Rock Unit	Time Rock Unit
20	Moorings "Unit"	Pleistocene
40	Calvert Formation	Miocene - Eocene
40	Patuxent Foramtion	Cretaceous
225	Newark Group	Triassic

VIRGINIA DIVISION OF MINERAL RESOURCES David A. Hubbard, Jr., Geologist August 10, 1978