COMMONWEALTH OF VIRGINIA

W#: 4495 C#: 86

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

Ci, ottesville, VA 22903

WATER

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

REPORT

B 3667

WELL COMPLETION

McCormick Road

Charlottesville, Virginia

OWNER: Southern Properties, Inc. #1 Mailing Address: P. O. Box 13006, Roanoke, VA. 24030 TENANT: The Colonies Subdivision Mailing Address: DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address P. O. Box 27186, Richmond, Va. 23261 XXXXX _miles __south WELL LOCATION: County New Kent _____ Approx._ __(direction) of feet Rt. 60-1002 Intersection _and_ 350 east (direction) of Chickahominy River enter. (GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.) DATE STARTED: 9/8/75 DATE COMPLETED: 10/6/75 HTGEOTAL Shell streeks 280 TYPE OF DRILL RIG USED: Rotary feet Stands 91 feet WATER LEVEL: surface OR below ____gallons per minute. flow of___ has NATURAL TITO Pump HOLE SIZE: 16 inches from 0 to 280 YIELD TEST: Method __ feet Drawdown _____5 ____feet Touring was inches from ______to ____feet base while some state wall inches from _____to ____feet Rate 125 gal. per min. Duration 48 hrs..___min. SCREEN SIZE: 6 inches from 198 to 238 feet WATER ZONES: from _______to _____feet __inches from ____ ___ t o ____ from _____feet ____inches from ____to____feet CASE SIZE: 6 inches from +2 to 198 feet from _____feet 6 inches from 238 to 254 feet WATER: Color_____Taste__ _____Temp.____ Odor___ ____inches from _____to____feet GROUTING: Method ____ WELL TO SUPPLY: (check one) Home _ Material _____ Depth ____ 50 feet Farm ____ Town ___ School ___ PUMP: Industry___Other_Subdivision Туре _____ Capacity_____gal per min WATER ANALYSIS AVAILABLE: Yes X No _____ DRILL CUTTINGS SAVED: 28 Yes X No ____ Depth of intake ___ feet (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: E-Log and gamma

FURNISHED BY: Earl Seay

DATE:

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED		REMARKS	
FROM	TO	(gravel, clay, etc., hardness, colo	r, etc.)	(water, caving, shot, screen, sample, etc.)	
0	1	Top soil	***	TENANT The Colonies Subdividion	
ec lav	, 5, 18 , ₁₅ ;	Red - yellow clay			
18	26	White sandy clay			
26 ny Rive	64 tmorts (b.tr)	Yellow and brown sandy clay, s		WELL LEGALTION : Gary New Kent	
64	90	Blue Clay 277000 330373333 DW		P	
90	115	Blue clay, streaks of shells a mixed, some black sand		COUNTY PLANTED OF THER WARD	
115	150	Gray and blue clay with shell	streaks	TATOR NOTELL BIR JUING BY BAYT	
150	171	Green and gray clay and shell black sand		I IS THE THE THE STATE OF THE S	
171	172	Hard shell rock		2.01.TAN 1.58	
172	192	Green sandy clay with some she	ells		
192	235	Shell rock		grand varies Table Guldin	
235	248	Shell rock with clay mixed		a meeticene	
248	265	Dark gray clay with some black	k sand	O 200 125 200 000 O	
265	280	Gray clay a 3312 M33802		7	
1051				WATER 2000S RETAIN	
3.061				WE'S	
1404	HZ_ 15 Z#			27	
1111E	15_ m_ 48			917 F 77 AW	
tout		100 XXXX		max and a	
				working short process of Laborator	
bal	DER			vadaž	
			not	aivibduā para	
OUT THE	lary			MATER ANALYSIS SVAILABLE (NIL	
1317				STALL CUTTINGS SAVES 28 VILL	
Seed	i disant			CONTRA LOGICA DE MINUSANO MONOTENA ALMAG COMO DIFERENT POR LOTA PROSENTA MONTENA MONTE	
				OARKS LE-Log and summa	

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

INTERVAL SHEET

Page 1 of 1 Well Repository No: W#: 4495 C#: 86

Date rec'd: 11/18/75 Date Processed: 11/4/76 Sample Interval: from:0to: 280

PROPERTY: Southern Properties, Inc. #1 Number of samples: 28

COMPANY: Sydnor Total Depth: 280'

COUNTY: New Kent (Lenexa) Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
		110 10	
0 - 10	250 -260	_	7-1
10 - 20	260 -270	=	-
20 _ 30	270 -280	=	-
30 _ 40	_	_	· -
40 _ 50	i —	-	-
F0 60			
50 _ 60	-	-	<u>-</u>
60 _ 70	(=)	-	-
70 _ 80	-	=	-
80 _ 90	-		-
90 _ 100	-	-	-
100 _ 110			
110 - 120	0000	=	-
120 - 130	=	<u>_</u>	-
130 - 140	_		_
140 - 150	Ξ.	3	_
150 - 160	_	<u>—</u>	_
160 - 170	_	_	-
170 - 180	-	-	_
180 - 190	i 	=	-
190 _ 200	· -	_	-
200 _ 210	-	-	=
210 _ 220	=	-	-
220 _ 230	-	-	-
230 _ 240	-	-	_
240 _ 250	_	_	_

Washed and unwashed samples.

OWNER: Southern Properties, Inc.

DRILLER: Sydnor COUNTY: New Kent

(Lanexa)

W#: 4495 C#: 86

TOTAL DEPTH: 280' QUAD.: Walkers

GEOLOGIC LOG

DEPTH (FEET)	
0-10	Sand — dark yellowish orange; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; few opaques.
10-20	Sand — very pale yellowish orange; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; few grains of feldspar.
20-30	Sand — white; slightly clayey; medium to coarse grained, some very fine grains; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
30-40	Sand — very dark yellowish orange; heavily stained; slightly clayey; medium to coarse grained; subangular, to subrounded; moderately well sorted; quartz; feldspar; few opaques.
40-50	Sand — dusky yellow; slightly clayey; fine to medium grained, some coarse grains, few granules; subangular to subrounded; moderately well sorted; quartz; some feldspar; some opaques; few grains of glauconite.
50-60	As above.
60-70	Sand — olive light gray; moderate clay; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; some glauconite; few grains of feldspar; muscovite.
70-80	Sand— olive light gray; slightly clayey; very fine grained; subangular to subrounded; well sorted; quartz; some glauconite; muscovite.
80-90	As above except 2% glauconite; few grains of feldspar.
90-100	As above plus few spines.
100-110	Sand — olive light gray; moderate clay; very fine to fine grained, few heavily stained granules; subangular to subrounded; well sorted; quartz; some glauconite; muscovite.
110-120	As above plus some medium grains.
120-130	As above.
130-140	As above except slightly clayey; few moderately stained shell fragments.
140-150	As above except moderate clay; 2% glauconite.

270-280

muscovite.

DEPTH (FEET) 150-160 Sand - olive light gray; moderate clay; very fine to fine grained; subangular to subrounded; moderately well sorted; quartz; some glauconite; some shell fragments; muscovite. 160-170 Sand - olive light gray; slightly clayey; medium grained, some fine grains, some coarse grains; subangular to subrounded; moderately well sorted; quartz; 5% shell fragments; some black phosphatic material; few grains of glauconite, forams rare (inc. Bulimina). 170-180 As above except 7% shell fragments; few spines; no foram. 180-190 As above plus forams (inc. Buccella and Nonion). 190-200 Coquina - medium light gray; 98% sandy limestone and shell fragments; some glauconite; some quartz; pyrite; muscovite; forams rare (inc. Quinqueloculina). 200-210 As above except no muscovite and no Quinqueloculina. 210-220 Coquina - medium light gray; near 100% sandy limestone and shell fragments; glauconite; some quartz; pyrite. 220-230 Coquina - medium light gray; 98% sandy limestone and shell fragments; glauconite; 2% guartz; pyrite. 230-240 Coquina - medium light gray; glauconite; some quartz; few grains of pyrite. 240-250 Sand - light olive gray; slightly clayey; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; 40% sandy limestone and shell fragments; 10% glauconite (brown, black); some spines; forams (inc. Robulus and Textularia). 250-260 Sand — olive light gray; abundant clay; medium to coarse grained; subrounded to rounded; moderately well sorted; 65% glauconite; quartz; 10% sandy limestone and shell fragments; muscovite; forams (inc. Globigerina and Robulus); ostracode. 260-270 As above except 7% sandy limestone and shell fragments; forams scarce (inc. Nodosaria and Pyrulina ?).

Sand and clay — olive light gray; moderate clay - olive light gray, light gray; abundant sand; medium to coarse grained; subrounded to rounded; moderately; well sorted; 50% glauconite; 25% sandy limestone and shell fragments; quartz;

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Depth Thickness

(feet) Get) Rock Unit Time Rock Unit

0-40 40 Bacons Castle Formation Pleistocene

40-70 30 Mooring Unit Pleistocene

70-190 120 Calvert Formation Miocene-Eocene

140-280 90 Wanjemony Formation Eocene

VIEGINIA DIVISION OF MINERAL RESOURCES David A. Hubbard, Tr., Geologist November 6, 1978