COMMONWEALTH OF VIRGINIA

W#: 4221 C#: 78

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS: DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road

B 3667 Condottesville, VA 22903 W/ATE

etc.)	c/o G. R. Balducci
OWNER: Kenwood Farms, Inc.	Mailing Address: Rt. 2, Mechanicsville, VA 23111
TENANT: Kenwood Farms well #1	Mailing Address:
DRILLER: Sydnor Hydrodynamics, Inc.	Mailing Address: P. O. Box 27181, Richmond, Va.
WELL LOCATION: County New Kent	Approx. 3,200 kmms north (direction) of
Rt. 33 and 50	east (direction) of Rt. 612
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T COUNTY HIGHWAY OR OTHER MAP.)	WO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: 1/28/74	DATE COMPLETED: 3/1/74
TYPE OF DRILL RIG USED: Rotary	TOTAL DEPTH 474 feet
WATER , LEVEL: Stands 157 feet below	
has <u>NATURAL</u> flow of_	gallons per minute.
YIELD TEST: MethodSubmersible	HOLE SIZE: 17 inches from 0 to 53 feet
Drawdown 97'5" feet	12_inches from53to474feet
Rate <u>116</u> gal. per min.	adsaura yalinches fromtofeet
Duration 24 hrs., min.	SCREEN SIZE: 6 inches from 399 to 419 feet
WATER ZONES: from 399 to 419 feet	6_inches from446_to466_feet
from 446 to 466 feet	0" pipe <u>12 inches from +1 to 53 feet</u>
fromtofeet	CASE SIZE: 6 inches from +2 to 399 feet
WATER: ColorTaste	6_inches from419_to446feet
Odor°F	6_inches from 466_to 470_feet
WELL TO SUPPLY: (check one) Home	GROUTING: MethodPressure
Farm Town School	Material <u>Cement Water Depth</u> 53 feet
IndustryOther_Subdivision	PUMP: Type
WATER ANALYSIS AVAILABLE: Yes X No	Capacitygal per min
ORILL CUTTINGS SAVED: 47 Yes X No (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT I OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHING ARKS:	ED FREE OF CHARGE UPON REQUEST.)

FURNISHED BY:____

DATE:

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED	REMARKS		
FROM	то	(gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, etc.)		
0	22	Red Clay	ENANT		
22	33	Vellow Clay			
33	46	Coarse brown sand	RILLER Sydnor Bydrodynamics, Inc.		
46	54	Brown clay	Armen man		
54	67	Shells	ELL LOCATION CALARY LINE MAN KINE		
67	95	Blue Clay	23 23		
95	160	Blue clay, shells mixed with some gray			
160	190	Shells with gray clay streaks	W NO TODAY AL JONATRID ON HOTOGRAD SV		
190	200	Fine black sand	LEGAL BURES NO VENUEL YEARS		
200	223	Fine black sand, gray sand with green c	law streaks MASA		
223	267	Dark gray clay	lay screaks		
367	311	Black sand clay	The or or unit production to serve		
311	328	Black sand			
3328	345	Tough brown clay	William Control of the Control of th		
345	369	Brown and gray clay	THE LAND STREET		
369	372	Fine gray sand	a service Walleton Co.		
372	391	Tough gray and brown clay	A MINTA W L W		
391	402	Gray silty clay	TEST TEST Newsys Submersible		
402	422	gray sand-clay streaks			
422	433	Tough brown clay	27.15° awayawa		
433	440	Fine gray sand clay			
440	455	Gray sand and clay streaks	A LONG CONTRACTOR OF THE CONTR		
455	467	gray sand and cray streams			
467	474	White and gray clay - some sand	24		
		THE CASE SIZE 6 word new			
	N or Off				
	66 10 4		1055		
			ELL TO SUPPLY COURS OF JUST		
191	.621				
			haterer to prompted in the		
n mi sag	le ;		A NACYSTS SYATEANNE ATER		
			SILL OUTTINGS SAVED 47 OUT		
8 91	- 379900		THE TOTAL PLANT OF THE CONTROL SAFETY FOR THE SAFET		
			PARKS.		
	- 1				

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

INTERVAL SHEET

					W#:	4221
Page	1	of	1	Well Repository No:	C#:	78

Date rec'd: 4/26/74 Date Processed: 7/15/75 Sample Interval: from:-to:-

PROPERTY: Kenwood Farms #1 Number of samples: 47

COMPANY: Sydnor Total Depth: 474

COUNTY: New Kent (Patterson's Store) Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0- 10	250 - 260	<u></u>	_
10- 20	260 - 270		-
20- 30	270 - 280		<u>=</u>
30- 40	280 - 290	-	n
40- 50	290 - 300	<u></u>	_ '
10 30	250 300		
50 - 60	300 - 310		=
0 60 - 70	310 - 320	_	-
70 - 80	320 - 330	_	
80 - 90	330 - 340	_	1-1
90 - 100	340 - 350	<u> </u>	-
100 - 110	350 - 360	-	
110 - 120	360 - 370	-	
120 - 130	370 - 380	-	1 = 1
130 - 140	380 - 390	_	-
140 - 150	390 -400	-	3 -
150 - 160	400 -410	-	19
160 - 170	410 -420	(.);	
170 - 180	420 -430		-
180 - 190	430 -440	(<u>—</u>)	_
190 - 200	440 -450	=	_
200 - 210	450 -460	:=:	=
210 - 220	460 -470	i _	_
220 - 230	(-1)	~	-
230 - 240	-	(=)	_
240 - 250	-	_	=

All intervals have both washed and unwashed samples

OWNER:

Kenwood Farms #1

DRILLER: Sydnor Hydrodynamics

COUNTY: New Kent (Patterson's Store)

W#: 4221

C#: 78

TOTAL DEPTH: 474'

QUAD.: Tunstall

GEOLOGIC LOG

Depth (feet)	
0-10	Sand — very dark yellowish orange; slightly stained; abundant clay; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; muscovite.
10-20	As above except dark yellowish orange; moderate clay.
20-30	Sand — grayish orange; slightly clayey; fine grained to granular, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
30-40	Sand — grayish orange; slightly clayey; coarse grained to granular, some medium grains, some pebbles; subrounded; moderately sorted; quartz (some manganese-stained grains); feldspar.
40-50	Sand — very dark yellowish orange; slightly stained; moderate clay; very fine to medium grained, 15% granules, 5% pebbles; subangular to subrounded; poorly sorted; quartz (some manganese-stained grains); feldspar; 3% ferricrete; some opaques.
50 _P 60	Sand and sandy limestone fragments — grayish orange; slightly clayey; medium to coarse grained, some fine grains; subangular to subrounded; moderately well sorted; quartz; 40% sandy limestone fragments; 5% shell fragments; some feldspar; some spines; few black phosphatic fragments; few grains of glauconite; bone fragment.
60-70	Sand — light olive gray; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 20% shell fragments; some glauconite; some black phosphatic material; few spines; few bone fragments.
70-80	Sand — olive light gray; moderate clay; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; 15% shell fragments; some black phosphatic material; few grains of glauconite; forams rare (inc. Nonion).
80-90	As above except 25% shell fragments; forams scarce (inc. Quinqueloculina).

Depth (feet)

- 90-100 Sand light olive gray; moderate clay-light olive gray, medium light gray (clasts); fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 2% shell fragments; some glauconite; few black phosphatic fragments; few sandy limestone fragments.
- 100-110 As above except 5% shell fragments.
- 110-120 Sand olive light gray; moderate clay; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; 5%shell fragments; some black phosphatic material; few grains of glauconite; ostracode.
- 120-130 As above except abundant clay (some clasts); some glauconite.
- 130-140 As above except 3% shell fragments; some muscovite.
- 140-150 Sand olive light gray; abundant clay; fine to coarse grained, some granules; subangular to subrounded; poorly sorted; quartz; 10% shell fragments; 2% black phosphatic material; few grains of glauconite; forams (inc. Robulus, Guttulina, and Bulimina); ostracodes.
- 150-160 As above plus some sandy limestone fragments.
- 160-170 Sand olive light gray; moderate clay; fine to coarse grained; subanular to rounded; moderately sorted; quartz; 25% sandy limestone and shell fragments; 15% glauconite (black, green); forams (inc. Quinque-loculina, Robulus, Buccella, and Discorbis); some pyrite; few bone fragments; ostracodes.
- 170-180 As above except 40% sandy limestone and shell fragments; no Discorbis.
- 180-190 As above except 25% glauconite (black, green, brown); forams (inc. Robulus and Buccella).
- 190-200 Sand olive light gray; moderate clay; fine to coarse grained; subangular to rounded; moderately sorted; quartz; 25% glauconite (black, green, brown); 20% sandy limestone and shell fragments; pyrite; forams scarce (inc. Robulus); bone fragment.
- 200-210 Sand light olive gray; slightly clayey; fine to coarse grained, some granules; subangular to rounded; poorly sorted; quartz; 25% glauconite (black, brown); 7% sandy limestone and shell fragments; some pyrite; forams (inc. Textuloria, Quinqueloculina, and Discorbis); few black phosphatic fragments; few spines; ostracodes.
- 210-220 Sand olive light gray; slightly clayey; very fine to very coarse grained, some granules; subangular to subrounded; poorly sorted; quartz; 30% glauconite; 7% shell fragments; pyrite; forams (inc. Robulus, Guttulina, Buccella, and Cibicides?); muscovite; ostracode.

Depth (feet)

- 220-230 As above plus some black phosphatic material; forams rare (inc. Buccella).
- 230-240 Sand olive light gray; slightly clayey; fine to coarse grained, few granules; subangular to rounded; poorly sorted; quartz; 30% glauconite; 30% sandy limestone and shell fragments; forams scarce (inc. Quinqueloculina and Robulus); ostracode; bone fragment.
- 240-250 As above plus some pebbles; foram.
- 250-260 Sand light olive gray, moderate clay—tlight olive gray, light orange pink; very fine to coarse grained; subangular to rounded; moderately sorted; quartz; 25% glauconite; 5% sandy limestone and shell fragments; muscovite; pyrite; few spines; forams scarce (inc. Buccella).
- 260-270 Sand dark greenish gray; moderate clay-olive light gray, moderate orange pink; fine to medium grained; subangular to rounded; moderately well sorted; 50% glauconite; quartz; some muscovite; some shell fragments; forams rare (inc. Siphogenerina).
- 270-280 As above except 65% glauconite (black, green); no Siphogenerina.
- 280-290 As above.
- 290-300 Sand olive light gray; slightly clayey; medium grained, some coarse grains; subangular to rounded; well sorted; 55% glauconite (black,green); quartz; some shell fragments; few sandy limestone fragments; muscovite.
- 300-310 Sand dark greenish gray; moderate clay; very fine to medium grained; subangular to subrounded; moderately sorted; 70% glauconite (black, green) quartz; 2% shell fragments; muscovite.
- 310-320 As above except slightly clayey; 60% glauconite.
- 320-330 Sand olive light gray; moderate clay-olive light gray, dark yellowish orange, light grayish yellow; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; 55% glauconite (black, green); quartz; some shell fragments; muscovite; forams scarce (inc. Nodosaria).
- 330-340 Sand light olive gray; abundant clay-light olive gray, light grayish yellow, dark yellowish orange; medium to coarse grained, some fine grains, some granules; subangular to rounded; moderately sorted; 65% glauconite; quartz; few shell fragments; forams rare (inc. Bolivina).
- 340-350 Sand yellowish gray; slightly clayey; very fine to coarse grained, some granules, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 5% glauconite; few shell fragments; muscovite.

	OWNER:	Ken	wood Farms #1	-4-	W#:	4221
((<u>feet</u>) 350-360		moderate reddish brown;	m; moderate clay-very lig medium to coarse grained moderately well sorted; e; muscovite.	, few	granules;
	360-370		As above.			
	370-380		As above except 20% gla	uconite.		
	380-390		pale grayish yellow; fi	orown; moderate clay-light ne to coarse grained; sub ted; quartz; fēldspar; 15	angula	ar to
	390-400		some fine grains, few g	n; slightly clayey; mediugranules; subangular to su ttz; feldspar; 10% glaucon	bround	ded;
	400-410		grained, some granules;	slightly clayey; medium subangular to subrounded ar; 5% glauconite; muscovi	; mode	rately
	410-420			slightly clayey; coarse subrounded; moderately s e; muscovite.	FF-14	
	420-430		TT	slightly clayey; medium; subrounded to rounded; ar; 17% glauconite.	177	
	430-440		As above except 12% gla	uconite.		
	440-450		brown, light olive gray,	sh brown; abundant clay-modusky yellow; fine to me cangular to rounded; moder auconite; feldspar.	dium (grained,
	450-460			phtly clayey; coarse grain prounded; moderately sorte		

460-470 As above plus few pebbles; 2% glauconite.

12% glauconite; muscovite.

470-474 No sample.

Logged by: Michael T. Currie