COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4222
C#: 79

MAILING ADDRESS:
B[illegible]3667
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DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Kenwood Farms, Inc. Mailing Address: c/o G. R. Balducci Rt. 2, Mechanicsville, VA 23111

TENANT: Kenwood Farms Well #2 Mailing Address:

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: P.O. Box 27181, Richmond, VA

WELL LOCATION: County New Kent Approx. 480 ~~feet~~ North (direction) of Route 33 and 500 ~~feet~~ East (direction) of Route 612

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: 3/1/74 DATE COMPLETED: 4/1/74

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 503 feet

WATER LEVEL: Stands 159 feet below surface OR has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible
Drawdown 42-7½" feet
Rate 100 gal. per min.
Duration 24 hrs., _____ min.

WATER ZONES: from 453 to 498 feet
from _____ to _____ feet
from _____ to _____ feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry _____ Other Subdivision

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: Yes x No _____

HOLE SIZE: 17 inches from 0 to 50 feet
12 inches from 50 to 503 feet
_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 453 to 498 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

CASE SIZE: 12 inches from 0 to 50 feet
6 inches from +2 to 453 feet
6 inches from 498 to 500 feet

GROUTING: Method Pressure
Material Cement & Water Depth 50 feet

PUMP: Type _____
Capacity _____ gal. per min
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.)

REMARKS: Well #2 (Plans Marked Site#1) Electric log and gamma log ran.

(LOG OF WELL) OVER

LOG

FURNISHED BY: _____ DATE: _____

DEPTH (feet) FROM	DEPTH (feet) TO	TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
0	16	Brown clay	
16	31	Brown sand and clay	
31	50	Brown clay mixed with pink	
50	56	Brown clay	
56	68	Shells	
68	130	Blue clay	
130	170	Black sand clay and shells	
170	180	Black and gray sand, some shells	
180	195	Dark gray clay	
195	230	Gray clay, some fine gray and black sand	
230	268	Tough gray clay	
268	336	Back sand clay	
336	344	Coarse gray sand, some clay	
344	368	Tough, sticky ground clay	
368	388	Gray sand clay	
388	420	Gray clay and sand streaks	
420	440	Tough brown clay	
440	449	Green silky clay	
449	455	Green and white sand clay	
455	503	Gray sand	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No: W#: 4222 C#: 79

Date rec'd: 4/26/74 Date Processed: 7/15/75

Sample Interval: from: 0 to: 503

PROPERTY: Kenwood Farms #2

Number of samples: 51

COMPANY: Sydnor

Total Depth: 503

COUNTY: New Kent (Patterson's Hole)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0- 10	300- 10	-	-
10- 20	310- 20	-	-
20- 30	320- 30	-	-
30- 40	330- 40	-	-
40- 50	340- 50	-	-
50- 60	350- 60	-	-
60- 70	360- 70	-	-
70- 80	370- 80	-	-
80- 90	380- 90	-	-
90-100	390-400	-	-
100- 10	400- 10	-	-
110- 20	410- 20	-	-
120- 30	420- 30	-	-
130- 40	430- 40	-	-
140- 50	440- 50	-	-
150- 60	450- 60	-	-
160- 70	460- 70	-	-
170- 80	470- 80	-	-
180- 90	480- 90	-	-
190-200	490-500	-	-
200- 10	500-503	-	-
210- 20	-	-	-
220- 30	-	-	-
230- 40	-	-	-
240- 50	-	-	-
250- 60			
260- 70			
270- 80			
280- 90			
290-300			

All intervals have both washed and unwashed samples.

OWNER: Kenwood Farms #2
DRILLER: Sydnor Hydrodynamics
COUNTY: New Kent
(Patersons' Store)

W#: 4222
C#: 79
TOTAL DEPTH: 503'
QUAD: Tunstall

GEOLOGIC LOG

Depth (feet)	
0-10	Sand — pale yellowish orange; abundant clay — pale yellowish orange, dark yellowish orange, light gray; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; muscovite; few grains of glauconite.
10-20	Sand — dark yellowish orange; moderately stained; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques; few grains of glauconite.
20-30	Sand — dark yellowish orange; heavily stained; slightly clayey; medium grained to granular; some fine grains, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques; muscovite.
30-40	Sand — moderate orange pink; abundant clay — dark yellowish orange, moderate orange pink, pale yellowish orange; very fine to medium grained, few granules; subangular to subrounded; moderately sorted; quartz; few grains of glauconite; few opaques; muscovite.
40-50	Sand — grayish orange; slightly clayey; fine to very coarse grained, 5% granules, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques; few grains of glauconite.
50-60	Sand — dark yellowish orange; slightly stained; slightly clayey; medium to coarse grained, some fine grains, 7% granules; subangular to subrounded; poorly sorted; quartz; 20% sandy limestone and shell fragments; some feldspar; some spines; some glauconite; some black phosphatic material; some bone fragments; ferricrete; muscovite.
60-70	Sand — dusky yellow; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 15% shell fragments; some black phosphatic material; some spines; some sandy limestone fragments; few grains of glauconite; ostracodes.
70-80	Sand — light olive gray; slightly clayey; silty; very fine to coarse grained, some granules; subangular to subrounded; poorly sorted; quartz; 35% sandy limestone and shell fragments; some black phosphatic material; few grains of glauconite; few spines; ostracode.

Depth (feet)	
80-90	Sand — olive light gray; moderate clay; silty; very fine to medium grained, few granules; subangular to subrounded; poorly sorted; quartz (some very heavily stained grains); 7% shell fragments; some black phosphatic material; some glauconite; few spines; few sandy limestone fragments; muscovite.
90-100	Sand — light olive gray; slightly clayey; slightly silty; very fine to coarse grained, some granules; subangular to subrounded; poorly sorted; quartz; 10% shell fragments inc. gastropods; few black phosphatic fragments; few grains of glauconite; few sandy limestone fragments; bone fragments.
100-110	Clay and sand — olive light gray; abundant clay — olive light gray, grayish orange; moderate sand; very fine to coarse grained, some granules; subangular to subrounded; poorly sorted; quartz, 15% sandy limestone and shell fragments; some black phosphatic material; few grains of glauconite; muscovite; forams rare (inc. Nonion).
110-120	Sand — olive light gray; abundant clay; silty; very fine to fine grained, some medium grains; subangular to subrounded; moderately sorted; quartz; 7% shell fragments; some sandy limestone fragments; few grains of glauconite; few black phosphatic fragments.
120-130	As above except some glauconite; no limestone.
130-140	Sand — olive light gray; moderate clay; slightly silty; very fine to fine grained, few granules; subangular to subrounded; moderately well sorted; quartz; 17% shell fragments; some black phosphatic material; some sandy limestone fragments; few grains of glauconite; few bone fragments.
140-150	Sand — olive light gray; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; 3% black phosphatic material; 2% shell fragments; few spines; forams (inc. Nonion).
150-160	Sand — olive light gray; slightly clayey; fine to coarse grained, some very coarse grains, 7% granules, few pebbles; subangular to subrounded; poorly sorted; quartz; 15% sandy limestone and shell fragments; 5% black phosphatic material; forams scarce (inc. Buccella); bone fragment; ostracode.
160-170	Sand — light olive gray; slightly clayey; fine to medium grained, some coarse grains, 5% granules; subangular to subrounded; poorly sorted; quartz; 15% sandy limestone and shell fragments; 10% glauconite (green, black); forams (inc. Buccella, Discorbis, and Textularis); few black phosphatic fragments; ostracodes; few spines; pyrite.

Depth (feet)	
170-180	Sand — light olive gray; slightly clayey; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; quartz (some heavily stained grains); 15% glauconite (black, green); few shell fragments; few sandy limestone fragments; some pyrite; forams (inc. Robulus, Buccella, and Dentalina); few spines.
180-190	Sand — olive light gray; slightly clayey; fine to coarse grained; subangular to rounded; moderately sorted; quartz; 25% glauconite (black, green, brown); 7% sandy limestone and shell fragments; few spines; pyrite; forams scarce (inc. Robulus).
190-200	As above except 10% shell fragments; some sandy limestone fragments; forams (inc. Robulus and Buccella).
200-210	Sand — olive light gray; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 15% glauconite (black, green); 12% sandy limestone and shell fragments; forams common (inc. Robulus, Globulina, and Discorbis); muscovite.
210-220	Sand — olive light gray; slightly clayey; fine to very coarse grained, some granules, few pebbles; subangular to rounded; poorly sorted; quartz; 20% glauconite (black, green); 15% shell fragments; some sandy limestone fragments; forams (inc. Robulus and Pyrulina); muscovite.
220-230	Sand — olive gray; moderate clay; fine to coarse grained, some granules; subangular to rounded; moderately sorted; quartz; 35% glauconite; 7% shell fragments; some muscovite; forams scarce (inc. Robulus and Pyrulina).
230-240	As above except 10% shell fragments; forams (inc. Robulus, Globulina, and Lagina?).
240-250	Sand — olive light gray; abundant clay; fine to coarse grained, some granules, some pebbles; subangular to rounded; poorly sorted; quartz; 25% glauconite; 7% sandy limestone and shell fragments; some muscovite; forams (inc. Robulus).
250-260	Sand — light olive gray; slightly clayey; medium to coarse grained, some granules; subangular to rounded; moderately well sorted; quartz (some moderately stained grains); 30% glauconite (black, green); 5% shell fragments; some muscovite; forams rare (inc. Globulina).

Depth (feet)	
260-270	Sand — olive gray; moderate clay — olive gray, moderate orange pink, light gray; fine to medium grained; rounded; moderately well sorted; 70% glauconite; quartz; some muscovite; few shell fragments; forams rare (inc. Nodosaria).
270-280	As above.
280-290	As above except 60% glauconite; no Nodosaria.
290-300	Sand — olive gray; moderate clay; very fine to medium grained; subangular to rounded; moderately sorted; quartz; 40% glauconite; some muscovite; some shell fragments; pyrite.
300-310	As above.
310-320	As above plus some coarse grains; moderately sorted; 2% shell fragments.
320-330	Sand — olive gray; moderate clay; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; 55% glauconite; quartz; some shell fragments; muscovite.
330-340	Sand — salt and pepper; slightly clayey; fine grained to granular, few pebbles; subangular to rounded; poorly sorted; quartz; 35% glauconite; feldspar; few shell fragments; muscovite.
340-350	Sand — light olive gray; moderate clay — light olive gray, light reddish brown, dark yellowish orange; medium to very coarse grained, some fine grains, some granules, few pebbles; subangular to rounded; poorly sorted; quartz; feldspar; 15% glauconite; few shell fragments; muscovite.
350-360	As above plus some dusky yellow clay.
360-370	As above except slightly clayey; 3% glauconite.
370-380	Sand — light olive gray; moderate clay; slightly silty; medium to very coarse grained, some very fine grains, some fine grains, 7% granules; subangular to subrounded; poorly sorted; quartz; feldspar; 7% glauconite; some muscovite; forams rare (inc. Robulus).
380-390	As above except some granules; 10% glauconite; 3% shell fragments; no Robulus.
390-400	Sand — off-white; slightly clayey; fine to very coarse grained, 5% granules; subangular to subrounded; poorly sorted; quartz; feldspar; 3% glauconite; muscovite.

Depth (feet)	
400-410	As above except medium to very coarse grained, 15% granules; moderately sorted.
410-420	As above.
420-430	Sand — moderate reddish brown; moderate clay — moderate reddish brown, light olive gray; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; 7% glauconite; muscovite.
430-440	As above except abundant clay; forams rare (inc. Buccella).
440-450	Sand — light olive gray; moderate clay — light olive gray, moderate reddish brown; medium grained, some fine grains, some coarse grains, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; 5% glauconite; muscovite.
450-460	Sand — white; coarse grained, some medium grains, few granules; subrounded; well sorted; quartz; feldspar; some glauconite; few shell fragments.
460-470	Sand — off-white; slightly clayey; coarse to very coarse grained, some fine grains, some granules; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
470-480	Sand — off-white; slightly clayey; very coarse grained to granular; subrounded; moderately well sorted; quartz; feldspar.
480-490	Sand — white; coarse to very coarse grained, few granules; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; garnet.
490-500	Sand — off-white; slightly clayey; medium grained to granular; subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite.
500-503	As above plus few pebbles.

Logged by: Michael T. Currie