

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:  
Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Holly Kamp Parks, Inc. Mailing Address: Suite 202  
5249 Duke St., Alexandra, VA 22304

TENANT: Four Winds Camp, Well #2 Mailing Address: Rappahannock Academy, Va.

DRILLER: Douglas & Dickinson, Inc. Mailing Address: Box 498, Warsaw, VA 22572

WELL LOCATION: County Caroline Approx. 4 ~~xxxx~~ miles north (direction) of  
Rappahannock Academy and feet miles (direction) of

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

DATE STARTED: \_\_\_\_\_ DATE COMPLETED: December 7, 1970

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 294 feet

WATER LEVEL: Stands 96 feet below surface OR

has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Drill rig

Drawdown 54 feet

Rate 125 gal. per min.

Duration \_\_\_\_\_ hrs., \_\_\_\_\_ min.

WATER ZONES: from 257 to 277 feet

from 277 to 287 feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_

Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

WELL TO SUPPLY: (check one) Home \_\_\_\_\_

Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_

Industry \_\_\_\_\_ Other Camp Swim. Pool

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No \_\_\_\_\_

DRILL CUTTINGS SAVED: Yes 28 No \_\_\_\_\_

(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: \_\_\_\_\_

HOLE SIZE: 8 inches from 0 to 238 feet

5 7/8 inches from 238 to 294 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 3 inches from 257 to 277 feet

2 1/2 inches from 277 to 287 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 6 inches from 0 to 238 feet

3 inches from 238 to 257 feet

3 inches from 287 to 294 feet

GROUTING: Method \_\_\_\_\_

Material \_\_\_\_\_ Depth \_\_\_\_\_ feet

PUMP: Type \_\_\_\_\_

Capacity \_\_\_\_\_ gal. per min

Depth of intake \_\_\_\_\_ feet

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

INTERVAL SHEET

Page 1 of 1 Well Repository No: C-93 3102  
 Date rec'd: 12/21/70; processed 3/10/71 Sample Interval; from 0 to: 294'  
 PROPERTY: Holly<sup>day</sup> Kamp Parks, Inc. Number of samples: 28  
 (Four Winds Camp, #2)  
 COMPANY: Douglas & Dickinson, Inc. Total Depth: 294'  
 COUNTY: Caroline (Rappahannock Academy) Oil or Gas: Water:  Exploratory:

From-To	From-To	From-To	From-To
0 - 10	262 - 273	-	-
10 - 21	273 - 283	-	-
21 - 31	283 - 294	-	-
31 - 42	-	-	-
42 - 52	-	-	-
52 - 63	-	-	-
63 - 73	-	-	-
73 - 84	-	-	-
84 - 94	-	-	-
94 - 105	-	-	-
105 - 115	-	-	-
115 - 126	-	-	-
126 - 136	-	-	-
136 - 147	-	-	-
147 - 157	-	-	-
157 - 168	-	-	-
168 - 178	-	-	-
178 - 189	-	-	-
189 - 199	-	-	-
199 - 210	-	-	-
210 - 220	-	-	-
220 - 231	-	-	-
231 - 241	-	-	-
241 - 252	-	-	-
252 - 262	-	-	-

All intervals have both washed and unwashed samples

Owner: Holly Kamp Parks, Inc.  
(4 Winds Camp #2)  
Driller: Douglas & Dickinson  
County: Caroline (Skinkers Neck)

W# 3102  
C# 93  
Total Depth 294'  
Quad: Rappahannock Academy  
Elev:

Depth  
(feet)

WELL LOG

0-10 Clay - moderate brown (5YR 4/5); abundant clay clasts; moderate sand; medium to very coarse, sub-angular; moderate sorting; some granules; quartz.

10-21 Gravel - various colors; pebbles >10mm; some clay clasts.

21-31 Gravel - as above.

31-42 Sand - dark greenish gray (5GY 4/1); minute amounts brown clay; sparse amount gray clay in "pellet" form; sand-mixed; 50% fine to medium, sub-angular; well sorted; quartz; with 10% grains of coarse sized, coated as gravel above; 50% fine glauconite; 10% muscovite mica; few large pebbles; lignite; feldspar.

42-52 Sand - as above.

52-63 Sand - olive gray (5Y 4/1); as above, except: moderate (gray) clay; sand; medium to pebble; medium clean; pebble clay/iron stained; 7% shell fragments; foram - Discorbis; Nonion; Robulus; magnetite; bone fragments.

63-73 Sand - moderate olive gray - (5Y 5/1); moderate clay; medium to coarse, sub-angular; some iron coated granules; well sorted; quartz; 7% glauconite; 1% shell fragments; bone fragments; magnetite; mica.

73-84 Sand - as above, except: abundant clay; ostracod.

84-94 Sand - as above, except: (no granules; forams).

94-105 Sand - as above, except: some shell fragments.

105-115 Sand - as above, except: sparse clay; sand; medium grained; some coarse & pebbles; 20% glauconite; 1% shell fragments; mica; forams - sparse.

115-126 Sand - as above.

126-136 Sand - as above, except: sparse shell bits; moderate clay.

136-147 Sand - as above.

147-157 Sand - as above, except: light olive gray (5Y 6/1); abundant clay.

Owner: Holly Kamp Parks, Inc. -2-  
(4 Winds Camp #2)

W# 3102

Depth  
(feet)

157-168 Clay & Sand - as above; abundant clay; abundant sand; fine to coarse; 7% glauconite; shell fragments; shark tooth.

168-178 Clay & Sand - as above, except: sand; fine to very coarse; sub-angular; poor sorting; quartz; rose quartz; 2% glauconite; feldspar; bone chips; no shell fragments.

178-189 Clay & Sand - as above.

189-199 Clayey sand - as above.

199-210 Sand - as above, except: sparse clay in clasts; medium to granule; 1% glauconite.

210-220 Clayey sand - as above, except: abundant clay; beige; yellow clasts; medium to very coarse; some granules; some glauconite; pyrite; feldspar.

220-231 Sandy clay - light olive gray (5Y 6/1) and light yellow gray (5Y 8/1); abundant clay clasts; sparse sand, as above; fuschite in some white clay clasts; mica and glauconite in others.

231-241 Sandy clay - mixed colors as above.

241-251 Sandy clay - as above, except: abundant clay; abundant sand; medium to very coarse; poor sorting; quartz; 1% glauconite; iron; graphite.

251-262 Sand - as above; sparse clay.

262-273 Sand - as above.

273-283 Sand - light olive gray (5Y 6/1); medium to granule, sub-angular; poor sorting; quartz; 1% glauconite; magnetite; rose quartz.

283-294 Clay & Sand - light olive gray (5Y 6/1); clasts of gray; beige; white; sand as above; sparse glauconite; shell fragments.

Logged by: J. K. Polzin  
June 13, 1980

OWNER: Holly<sup>day</sup> Kamp Parks, Inc.  
(Four Winds Camp, #2)  
DRILLER: Douglas & Dickinson, Inc.  
COUNTY: Caroline (Rappahannock Academy)

VDMR # 3102  
WWCR # 93  
TOTAL DEPTH : 294'

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-31	Columbia Group	Pleistocene
31-157	Calvert Formation	Middle Miocene
157-189	Nanjemoy Formation	Eocene
189-283	Mattaponi Formation	Paleocene
283-294	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources  
Robert H. Teifke - Geologist  
March 31, 1971