

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

5249 Duke St., Suite 202
Alexandria, VA 22304

OWNER: Holiday Kamps, Inc. (S. J. Sherman) Mailing Address: _____

TENANT: Four Winds Camp, Well #1 Mailing Address: Rappahannock Academy, Va.

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

WELL LOCATION: County Caroline Approx. 5 ~~xxxxxx~~ miles north (direction) of
Rappahannock Academy and _____ feet miles at end (direction) of St. Rd. 728

(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: September 30, 1970

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 251 feet

WATER LEVEL: Stands 22 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method compressor
Drawdown 98 feet
Rate 150 gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 8 inches from 0 to 198 feet
5 5/8 inches from 198 to 251 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 216 to 246 feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 3 inches from 216 to 246 feet
_____ inches from _____ to _____ feet

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

CASE SIZE: 6 inches from 0 to 198 feet
3 inches from 198 to 216 feet
3 inches from 246 to 251 feet

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

GROUTING: Method _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

PUMP: Type _____
Capacity _____ gal per min
Depth of intake _____ feet

DRILL CUTTINGS SAVED: Yes 24 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: _____

LOG

FURNISHED BY: Douglas & Dickinson, Inc.

DATE: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	10	Brown sand	
10	22'4"	Gravel	
22'4"	32'4"	Brown clay - gray clay	
32'4"	43'7"	Sandy clay and shells blue clay	
43'7"	53'7"	Blue clay	
53'7"	64'9"	Blue clay	
64'9"	74'9"	Blue clay	
74'9"	86'3"	Blue clay	
86'3"	96'3"	Blue clay	90' - hard rock
96'3"	107'8"	Gray sandy clay	
107'8"	117'8"	Gray sandy clay	
117'8"	128'11"	Gray sandy clay	
128'11"	138'11"	Brown and gray clay	hard
138'11"	149'11"	Gray sandy clay	soft
149'11"	159'11"	7' sand-coarse	3' stickey
159'11"	170'2"	Stickey gray sand and clay	
170'2"	181'2"	Brown and gray clay	hard
181'2"	191'3"	Brown and gray clay	
191'3"	202'3"	Gray sandy clay	rock 202'
202'3"	212'7"	5' cut fast-coarse sand and gravel	
212'7"	222'7"	Coarse gray sand	
222'7"	234'		
234	244	Coarse gray sand	
244	250	Gray clay	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Date rec'd: 10/16/70 ; processed 3/5/71	Well Repository No: 3097
PROPERTY: Stanley J. Sherman, Pres. (Holiday Kamps-4 Winds, #1)	Sample Interval; from 0 to; 250'
COMPANY: Douglas & Dickinson, Inc.	Number of samples: 24
COUNTY: Caroline (Rappahannock Academy)	Total Depth: 251'
	Oil or Gas: Water: *Exploratory:

From-To	From-To	From-To	From-To
0 - 10 *	-	-	-
10 - 21 *	-	-	-
21 - 31 *	-	-	-
31 - 41 *	-	-	-
41 - 51 *	-	-	-
51 - 62 *	-	-	-
62 - 72	-	-	-
72 - 84	-	-	-
84 - 95	-	-	-
95 - 106	-	-	-
106 - 117	-	-	-
117 - 128	-	-	-
128 - 139	-	-	-
139 - 150	-	-	-
150 - 161	-	-	-
161 - 171	-	-	-
171 - 181	-	-	-
181 - 192	-	-	-
192 - 202	-	-	-
202 - 212	-	-	-
212 - 223 *	-	-	-
223 - 234 *	-	-	-
234 - 244 *	-	-	-
244 - 250	-	-	-
-	-	-	-

* Washed and unwashed splits; rest unwashed samples only

Owner: Holiday Kamp - 4 Winds [±] / W# 3097
Stanley J. Sherman
Driller: Douglas & Dickerson C# 92
County: Caroline (Skinkers Neck) Total Depth 250'
Quad: Rappahannock Academy
Elev:

Depth
(feet) WELL LOG

0-10 Sand - moderate brown (5YR 4/4); clay coated sand; medium to very coarse; angular; sub-angular and sub-rounded; poor sorting; quartz; magnetite; some glauconite; NOTE: angular sand is clear; weathered sand is coated.

10-21 Gravel - variegated browns; pebbles larger than 6mm; sub-rounded; poor sorting; quartz.

21-31 Gravel - as above, except: sparse clay in sand clasts; fine to pebble sized sand; more in fine and gravel sizes; 1% mica; glauconite.

31-41 Hash - olive gray (5Y 4/1); abundant clay, powder and clasts; gravel, sand - as above; except 50% glauconite (fine) in quartz sand; 10% shell fragments - Turritella; mica.

41-51 Clay, sandy - as above, except: abundant clay clasts; few pebbles; 10%+ glauconite; 1% shell fragments.

51-62 Clay, sandy - as above.

62-72 Clay - as above, except: 2% shell fragments.

72-84 Clay - as above, except: abundant clay clasts; moderate sand; fine to coarse; 10% glauconite; no shell fragments.

84-95 Clay, sandy - as above, except: abundant sand; some pebbles; some shell fragments.

95-106 Clay - yellowish gray (5Y 6/2); abundant clay, powder and clasts; abundant sand; medium to very coarse; poorly sorted; quartz; 1% glauconite; mica.

106-117 Sand - olive gray (5Y 4/1); abundant clay clasts; abundant sand; very fine to coarse; sub-angular to sub-rounded, poor sorting; quartz; 1% glauconite; shell fragments; mica; wood debris.

117-128 Sand - yellowish gray (5Y 6/2); abundant clay; sand as above; some glauconite grains; shell fragments; wood, and plant debris.

Owner: Holiday Kamp - 4 Winds -2-
Stanley J. Sherman

W# 3097

Depth
(feet)

128-139 Sand - deep dusky yellow (5Y 5/4); as above.

139-150 Sand - yellowish gray (5Y 6/2); as above.

150-161 Sand - moderate olive gray (5Y 5/1); sparse clay; fine to granule, sub-rounded; poorly sorted; quartz; some sand clasts.

161-171 Sand - as above, except: moderate clay; some tan, white clasts; 1% glauconite; garnet;

171-181 Sand, clayey - light yellow brown (10YR 6/4); as above, except: abundant clay.

181-192 Sand, clayey - moderate yellowish brown (10YR 5/4); as above, except: clay white.

192-202 Sand, clayey - as above, except: some granules.

202-212 Sand, clayey - moderate yellow brown (10YR 5/2); as above.

212-223 Sand - "salt and pepper;" medium to granule; frosted; sub-angular; moderate sorting; quartz; some glauconite; magnetite; feldspar.

223-234 Sand - as above, except: some pebbles; rose quartz.

234-244 Sand - as above.

244-250 Clay - yellow gray (5Y 7/2); moderate sand; medium; well sorted; quartz.

Logged by: J. K. Polzin
June 11, 1980

OWNER: Holiday Kamps, Inc. (S. J. Sherman)
(4 Winds Camp, Well #1)
DRILLER: Douglas & Dickinson, Inc.
COUNTY: Caroline (Rappahannock Academy)

VDMR # 3097
WWCR # 92
TOTAL DEPTH: 251'

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-41	Columbia Group	Pleistocene
41-139	Calvert Formation	Middle Miocene
139-192	Nanjemoy Formation	Middle Eocene
192-250	Mattaponi Formation	Paleocene
250-251	No sample	-

Virginia Division of Mineral Resources
Robert H. Teifke - Geologist
March 29, 1971