

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: Presidential Lakes Inc. Mailing Address: _____

TENANT: Well #2 Mailing Address: _____

DRILLER: Leazer Pump & Well Co., Inc. Mailing Address: P. O. Box 275
Remington- Virginia

WELL LOCATION: County King George Approx. 1 1/2 ^{feet}/_{miles} W of King George (direction) of
on Route 3 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: 8/10/72 DATE COMPLETED: 8/17/72

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 881 feet

WATER LEVEL: Stands 135 feet below surface OR
has NATURAL flow of _____ gallons per minute

YIELD TEST: Method Air
Drawdown 275 feet
Rate 200 gal. per min.
Duration 24 hrs., _____ min.

HOLE SIZE: 12 3/4 inches from 0 to 309 feet
10 inches from 309 to 745 feet
6 inches from 745 to 881 feet

WATER ZONES: from 475 to 510 feet
from 700 to 730 feet
from 835 to 855 feet

SCREEN SIZE: 6" inches from 475 to 505 feet
6 inches from 705 to 735 feet
_____ inches from _____ to _____ feet

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

CASE SIZE: 7 inches from 1 1/2 to 309 feet
6 inches from 309 to 475 feet
6 inches from 505 to 705 feet
735 745

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

GROUTING: Method pressure grout -
Material cement Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes X No _____

PUMP: Type 30 HP Jacuzzi Submersible
Capacity 200 gal. per min.
Depth of intake 300 feet

DRILL CUTTINGS SAVED: Yes X 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: Diz Leazer

DATE: 8/17/72

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	red clay	
10	20	red clay	
20	30	yellow clay	
30	280	green clay	
280	310	red, blue and white clay	
310	320	red, blue and white clay	
320	340	blue and red clay	
340	350	black sand	
350	476	clay	
476	505	rock and sand	
505	590	clay	
590	600	sand	
600	690	clay	
690	700	clay rock	
700	730	sand and rock	
730	835	red clay	
835	855	sand and rock	
855	881	clay red and green	

(Use additional forms if necessary)

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

INTERVAL SHEET

C-82

Page 1 of 1

Well Repository No.: W- 3665

Date rec'd: 9/11/72 Date Processed: 2/1/73

Sample Interval: from 0' to: 881'

PROPERTY: Presidential Lakes #2

Number of samples: 55*

COMPANY: Leazer P&W Co.

Total Depth: 881'

COUNTY: King George (King George C.H.)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0 - 10	490 - 500	-	-	-
-	500 - 10	750 - 60	-	-
50 - 60	510 - 20	760 - 70	-	-
-	520 - 30	770 - 80	-	-
70 - 80	530 - 40	780 - 90	-	-
90 - 100	540 - 50	790 - 800	-	-
-	550 - 60	800 - 10	-	-
110 - 20	-	810 - 20	-	-
-	570 - 80	820 - 30	-	-
200 - 50	580 - 90	830 - 40	-	-
-	590 - 600	840 - 50	-	-
260 - 70	600 - 10	850 - 60	-	-
-	610 - 20	860 - 70	-	-
280 - 90	620 - 30	870 - 80	-	-
-	630 - 40	-	-	-
310 - 20	640 - 50	881 -	-	-
320 - 30	650 - 60	-	-	-
330 - 40	660 - 70	-	-	-
-	670 - 80	-	-	-
360 - 70	680 - 90	-	-	-
370 - 80	690 - 700	-	-	-
-	700 - 10	-	-	-
460 - 70	710 - 20	-	-	-
470 - 80	720 - 30	-	-	-
480 - 90	730 - 40	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

All intervals have both washed & unwashed samples
 *34 samples for missing intervals (above) discarded -- depths not labeled on tags.

OWNER: Presidential Lakes #1
DRILLER: Leazer Pump & Well Co.
COUNTY: King George

W# 3665
C# 82
Total Depth: 881'
Quad: King George
Elev: 161'

Depth
(Feet)

WELL LOG

0-10 Sand - Dark yellow orange (10yr 6/6); medium to coarse with some very coarse, subangular, well sorted; rose quartz in very coarse size.

10-50 No Samples.

50-60 Sand - Olive gray (5y 4/1); abundant clay; medium to coarse, subangular, moderate sorting; rose quartz; 35% glauconite; 20% shell fragments; Madreporite.

60-70 No Sample.

70-80 Sand - Dark yellowish brown (10yr 4/2); abundant clay; fine to medium and rounded granules, subangular, moderate sorting; 35% glauconite; 40% shell fragments; Phosphate Nodules; bone fragments; Mica.

80-90 No Sample.

90-100 Sand- Light olive gray (5y 5/2); moderate clay; fine, subangular, well sorted; bone fragment.

100-110 No Sample.

110-120 Sand, Glauconite - Light and dark green; 50% Glauconite; sparse clay; fine to granule, subangular, poorly sorted; rose quartz in granule size; 20% shell fragments - Venicardia; bone fragment; mica.

120-240 No Samples.

240-270 Sand - Dark yellowish brown (10yr 4/4); moderate clay of different colors - gray, brown, white; fine to granule with most in fine to medium range, angular and subangular, poorly sorted; feldspar; Limonite; Mica. (Contamination? shell fragments, glauconite at 250-60, 30%+ glauconite and 20% large shell fragments, forams-Nodaſaria).

270-280 No Sample.

280-340 Sand - Dark yellowish brown (10yr 4/4) and moderate yellow brown (10yr 5/4); abundant clay of red, yellowish brown and gray ~~colors~~ colors; fine to granule, angular and subangular, poorly sorted; feldspar; mica. (Contamination?
ort

OWNER: Presidential Lakes #1 W# 3665
DRILLER: Leazer Pump & Well Co. C# 82
COUNTY: King George Total Depth: 881'

Depth
(feet)

30% glauconite/3% shell fragments; at 310-320 10% shell fragments and 20% at 320-340. Also - 3 teeth, Carcharhinidid shark; bone fragments; Phosphate nodules.)

- 340-360 No Sample.
- 360-380 Sand - Moderate yellowish brown (10yr 5/4); abundant clay - red, yellowish brown; fine to granule with small pebbles, angular and subangular, poorly sorted; feldspar; rose quartz; mica. (Contamination ? - sparse glauconite/shell fragments at 360-370 and 40% glauconite/Large shell fragments ostracods at 370-380.
- 380-460 No Samples.
- 460-470 Sand - Pale yellow brown (10yr 6/2); abundant clay; fine to granule, angular and some subangular, poorly sorted; feldspar. (Contamination ? - few shell fragments/glauconite).
- 470-490 Sand - Pale yellowish brown (10yr 6/2); moderate clay; coarse to very coarse with some fine and granules, angular and subangular, poorly sorted; feldspar; Hematite fragments; rose quartz (Contamination ? - very rare shell fragments/ glauconite).
- 490-500 Sand - Pale yellowish brown (10yr 6/2); sparse clay; medium to very coarse with granules, angular and subangular, moderate sorting, feldspar; rose quartz.
- 500-510 Sand - Pale yellowish brown (10yr 6/2); sparse clay; fine to granule, angular and subangular, poor sorting; feldspar; rose quartz; mica.
- 510-550 Sand - Pale yellowish brown (10yr 6/2); very sparse clay at 510-550 and sparse thereafter; fine to very coarse with mostly fine, angular, poorly sorted; rose quartz; feldspar; mica. (Contamination ? - shell fragments/ glauconite - rare; tooth).
- 550-560 Sand - Moderate yellowish brown (10yr 5/4); abundant clay; fine with larger grains, angular, moderately well sorted; rose quartz; feldspar; mica.

OWNER: Presidential Lakes #1
DRILLER: Leazer Pump & Well Co.
COUNTY: King George

W# 3665
C# 82
Total Depth: 881'

<u>Depth (feet)</u>	
560-570	No Sample.
570-580	Sand - Pale yellowish brown (10yr 6/2); abundant clay in gray, white, red and yellow; fine, angular, moderate sorting; rose quartz; feldspar; mica.
580-600	Sand - Dark yellow brown (10yr 4/2); abundant clay - moderate yellow orange clasts and dark gray; fine, angular, poor sorting; rose quartz; feldspar; mica. (Contamination ? - metal fragments; rare shell fragments/glaucanite)
600-610	Sand - Moderate yellow brown (10yr 5/4); abundant colored clays; fine, angular, poorly sorted; rose quartz; mica. (Contamination ? - rare shell fragments/glaucanite)
610-630	Sand - Dark yellow brown (10yr 4/2); abundant clays; fine to coarse with some very coarse, angular, poorly sorted; rose quartz; feldspar; mica. (Contamination ? - rare shell fragments/glaucanite and phosphate nodules.
630-670	Sand - Dark yellow brown (10yr 4/2); moderate clay - red clasts; fine to coarse and at 650-670, fine to medium with few coarse, angular, poorly sorted until 650-670 where moderately; rose quartz; feldspar. (Contamination ? - 10% fine glaucanite at 660-670, few thereafter)
670-690	Sand - Darker yellow brown (10yr 3/2); abundant clay; fine to coarse, angular, poorly sorted; rose quartz; feldspar. (Contamination - rare shell fragments/glaucanite.
690-710	Sand - Darker yellow brown (10yr 3/2); moderate clay; fine to granule, angular, poorly sorted; feldspar; rare contamination.
710-720	Sand - Pale yellow brown (10yr 6/2); sparse clay; fine to very coarse, angular, moderate sorting; feldspar.
720-740	Sand - Dark yellow brown (10yr 4/2); abundant clay; fine to very coarse, angular, poorly sorted; feldspar; rare contamination.

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W# 3665
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Total Depth: 881'

<u>Depth (feet)</u>	
740-750	No Sample.
750-760	Sand - Moderate yellow brown (10yr 5/2); abundant clay; fine to very coarse, angular, poorly sorted; feldspar; rare contamination.
760-830	Sand - Light and dark brown; from 800-830, sparse clay in red clasts; fine to very coarse, at 790-800, fine to coarse and at 820-830 fine to coarse, angular, moderate sorting; iron oxide particles - <u>abundant</u> ; feldspar.
830-870	Sand - Light olive gray (5y 7/1); fine to very coarse, angular, moderate sorting; rose quartz; feldspar (20-30%).
870-880	Sand - Light and dark brown; very sparse clay; fine to coarse, angular, moderate sorting; rose quartz; feldspar. (Contamination ? - rare glauconite/phosphate nodules)
880-881	Clay - Moderate brown (5y 4/4); moderate sand, fine to very coarse; angular and subangular, poor sorting.

Logged by:

J. K. Polzin
Nov. 6, 1980