

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3865

C-84

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Presidential Lakes, Inc. Mailing Address: King George, Va.

TENANT: Well #3 Mailing Address: P. O. Box 275

DRILLER: Leazer Pump & Well Co., Inc. Mailing Address: Remington, Virginia

WELL LOCATION: County King George Approx. One ^{feet} miles West of King on (direction) of
Route 3 and 300 yards south of Hwy. No. 3 ^{feet} and 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: 4/6/73 DATE COMPLETED: 4/17/73

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 1035 feet

WATER LEVEL: Stands 160 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: 7 inches from 0 to 378 feet
6 inches from 378 to 1035 feet
 inches from to feet

WATER ZONES: from 514 to 524 feet
560 570
from 650 to 660 feet
740 760
from 860 to 910 feet

SCREEN SIZE: 6 inches from 514 to 524 feet
6 560 570
6 inches from 650 to 660 feet
6 740 760
6 inches from 890 to 910 feet

WATER: Color Clear Taste
Odor Temp. °F

CASE SIZE: 7 inches from 0 to 378 feet
6 inches from 378 to 925 feet
Gravel packed
 inches from 925 to 1035 feet

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

GROUTING: Method Pressure
Material Cement & Water Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes X No

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

DRILL CUTTINGS SAVED: Yes 97 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: Leazer 17 Co. Inc.

DATE: 4/19/73

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
100	120	yellow clay, green clay	

(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- 3865

Date rec'd: 5/14/73 Date Processed: 5/1/74

Sample Interval: from 0 to: 1000
C-84

PROPERTY: Presidential Lakes #3

Number of samples: 96

COMPANY: Leazer P & W Co.

Total Depth: 1035

COUNTY: King George (King George)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	300-310	600-610	900-910	-
10-20	310-320	610-620	910-920	-
20-30	320-330	620-630	920-930	-
30-40	330-340	630-640	930-940	-
40-50	340-350	640-650	940-950	-
50-60	350-360	650-660	950-960	-
60-70	360-370	660-670	960-970	-
70-80	370-380	670-680	970-980	-
80-90	380-390	680-690	-	-
90-100	390-400	690-700	990-1000	-
100-110	400-410	700-710	-	-
110-120	-	710-720	-	-
120-130	420-430	720-730	-	-
130-140	430-440	730-740	-	-
140-150	440-450	740-750	-	-
150-160	450-460	750-760	-	-
160-170	460-470	760-770	-	-
170-180	470-480	770-780	-	-
180-190	480-490	780-790	-	-
190-200	490-500	790-800	-	-
200-210	500-510	800-810	-	-
210-220	510-520	810-820	-	-
220-230	520-530	820-830	-	-
230-240	530-540	830-840	-	-
240-250	540-550	840-850	-	-
250-260	550-560	850-860	-	-
260-270	560-570	860-870	-	-
270-280	570-580	870-880	-	-
280-290	-	880-890	-	-
290-300	590-600	890-900	-	-

Not enough to wash.

Owner: Presidential Lakes #3
Driller: Leazer P & W Co.
County: King George

W# 3865
C# 84
Total depth: 1035'
Quad: King George
Elev: 161

Depth
(feet)

WELL LOG

0 - 20 Clay - Dark yellowish orange (10yr 6/6); few mixed sand grains.

20 - 30 Clay - Dark yellowish orange (10yr 6/6) with clasts of light olive gray (5y 6/1); abundant sand in gray clasts only; medium, subangular, well sorted.

30 - 60 Clay - Light olive gray (5y 6/1) with some clasts of dark yellowish orange; abundant sand; medium, subangular, well sorted.

60 - 70 Sand - Moderate yellowish brown (10yr 5/2); abundant clay; some small clay clasts; fine, subangular, well sorted.

70 - 80 Sand - Light olive gray (5y 6/1); abundant clay; fine, subangular, well sorted; diatoms.

80 - 100 Clay - Light olive gray (5y 6/1); abundant sand; fine, subangular, well sorted; diatoms; few grains glauconite.

100 - 120 Sand - Light olive gray ((5y 5/1); abundant to moderate clay, some in clasts; medium with some larger, subangular, well sorted; some to 10% glauconite; 40% shell fragments; plant debris.

120 - 150 Clay - Light olive gray (5y 5/1); abundant sand; medium, with some larger, subangular, moderate sorting, 40% glauconite at 120 - 130; 130 - 150 - 25% glauconite; 10% shell fragments at 120 - 130 and 30% shell fragments at 130 - 150; mica up to 1%.

150 - 170 Sand - Light olive gray (5y 5/1); abundant clay; medium, subangular, moderate sorting; 10% glauconite; 25% shell fragments; 1% mica.

170 - 180 Sand - Light olive gray (5y 5/1); abundant clay; medium, subangular, moderate sorting; rare glauconite; 40% shell fragments.

180 - 200 Sand - Light olive gray (5y 5/1); abundant clay; medium, subangular, moderate sorting; 1-3% shell fragments; mica up to 1%.

200 - 210 Sand - Light olive gray (5y 5/2); abundant clay; medium, subangular, moderate sorting; 1% phosphate fragments; very rare shell fragments; mica.

- 210 - 220 Sand - Light olive gray (5y 5/2) with ^{abundant} ~~clay~~ dark yellowish orange; ~~abundant~~ clay; medium, subangular, moderate sorting; few grains glauconite; very rare shell fragments.
- 220 - 230 Clay - Light olive gray (5y 5/2); abundant sand; medium, subangular, moderate sorting; 25% glauconite; very rare shell fragments; 1% mica.
- 230 - 240 Clay - Light olive gray (5y 5/1); abundant sand; medium, subangular, moderate sorting; 15% glauconite; 30% shell fragments; mica.
- 240 - 250 Sand - Light olive gray (5y 6/1); abundant clay; medium to coarse, subangular, moderate sorting; 10% glauconite; 5% shell fragments; echinoderm madreporite; mica.
- 250 - 260 Clay - Light olive gray (5y 5/1 and 7/1); abundant sand; fine, subangular, well sorted; very rare glauconite; 5% shell fragments; diatoms, in Kaolinitic(?) clasts.
- 260 - 270 Clay - Light olive gray (5y 6/2); no sand; echinoderm spines.
- 270 - 280 Clay - Light olive gray (5y 6/1) and dark yellowish orange; abundant sand; medium to coarse, subangular, moderate sorting; 2% glauconite; 1% shell fragments; mica.
- 280 - 310 Sand - Light olive gray (5y 6/1); and moderate yellowish orange; abundant clay; medium to coarse, subangular, moderate sorting at 280-290; poor sorting at 300-310; 2% glauconite; very rare shell fragments; mica.
- 310 - 330 Sand - Light olive gray (5y 6/1); abundant clay; calcite coating on everything; medium to coarse, subangular, poorly sorted; 310-320; Very rare glauconite; 320-330; 30% glauconite; 1% to very rare shell fragments; mica.
- 330 - 340 Gravel, Shelly, Clayey - Moderate yellowish brown (10yr 5/4); abundant clay; abundant ^{an} sand; medium to pebble, subangular and rounded, poorly sorted; phosphatic fragments; 50% shell fragments; plant debris - seeds.
- 340 - 360 Clay - Moderate yellowish brown (10yr 5/4); ~~and~~ clasts of different colors - light brown, dark yellowish orange; moderate sand; medium to pebble, subangular and rounded, poorly sorted; phosphate fragments; 30% shell fragments; plant debris; lignite.
- 360 - 380 Clay - Mixed colors of both pebbles and clay clasts, gray, red and dark yellow-orange; sparse sand; pebbles, round, poorly sorted; 50% shell fragments; red siltstone/hard clay; plant debris; charcoal.

- 380 - 390 Clay - Light olive brown (5y 5/4); moderate sand; medium to granule, subangular, poorly sorted; 45% shell fragments; plant contamination.
- 390 - 410 Clay - Mixed colors; moderate sand; pebbles with some smaller grains, rounded, poorly sorted; 45% shell fragments.
- 410 - 420 No Sample.
- 420 - 440 Sand - Light olive brown (5y 5/4); sparse to moderate clay; medium to granule, subangular, poorly sorted; 420-430 - 20% shell fragments and 30% glauconite; 430-440 - 1% shell fragments and 20% glauconite.
- 440 - 480 Clay - Moderate yellowish brown (10yr 5/2); abundant sand; medium to granule, subangular, poorly sorted; some clasts of clay in different colors until 460-470; rare glauconite; 10% shell fragments; echinoderm madreporite.
- 480 - 490 No Sample.
- 490 - 510 Clay - Moderate yellowish brown (10yr 5/2); abundant sand; clay in "Pellets"; medium to granule, subangular, poorly sorted; rare glauconite at 490-500; 1% shell fragments; plant contamination - seeds, charcoal.
- 510 - 560 Sand - Moderate yellowish brown (10yr 5/2); abundant clay 510-530; moderate clay 530-550; sparse clay 550-560; medium to granule, subangular, poorly sorted; contamination; 40% shell fragments - 510-530; 25% shell fragments 530-550; 20% shell fragments 550-560.
- 560 - 570 Sand - Light olive gray (5y 6/2); moderate clay; medium to granule, subangular, moderate sorting.
- 570 - 630 Sand - Light olive gray (5y 6/2); sparse clay; medium to granule, subangular, poorly sorted; moderate sorting at 600-610; rare shell fragments and glauconite; no sample at 580-590.
- 630 - 640 Clay - Pale yellowish brown (10yr 6/2) ^{with} and various colored clasts; very sparse sand; medium to granule, subangular, poorly sorted.
- 640 - 680 Sand - Yellowish brown (10yr 5/2); moderate clay; medium to granule, subangular and angular, poorly sorted; rare shell fragments at 640-650.

- 680 - 690 Clay - Pale yellowish brown (10yr 6/2) with clasts of various colors, pinks, grays; moderate sand; medium to granule, subangular and angular, poorly sorted; rare shell fragments.
- 690 - 700 Clay - Moderate yellowish brown (10yr 5/4); clay clasts in various colors, yellows, reds; moderate sand; medium to granule, subangular and angular, poorly sorted.
- 700 - 720 Clay - Moderate yellowish brown (10yr 5/6) and light olive gray (5y 6/2); clay in clasts; few grains of sand; medium to granule, subangular and angular, poorly sorted.
- 720 - 750 Sand - Moderate yellowish brown (10yr 5/4); moderate clay; medium to granule, subangular and angular, poorly sorted; feldspar; some contamination.
- 750 - 760 Sand - Mixed colors; abundant clay; medium to granule, subangular and angular, poorly sorted; some shell fragment/plant contamination.
- 760 - 790 Sand - Moderate yellowish brown (10yr 5/4); moderate clay; medium to very coarse, subangular and angular, well sorted; sparse contamination.
- 790 - 800 Sand - Pale yellowish brown (10yr 6/2); moderate clay; medium to pebble, subangular and angular, poor sorting; sparse shell fragments.
- 800 - 810 Gravel - Mixed colors; very sparse clay; medium to pebble, subangular and angular, poorly sorted.
- 810 - 840 Sand - Mixed colors; moderate clay; sparse at 810-820; medium to granule, subangular and angular, poorly sorted; Grass.
- 840 - 850 Clay - Moderate brown (5y 4/4); abundant sand; coarse to very coarse, subangular and angular, poorly sorted; Grass.
- 850 - 870 Sand - Moderate yellowish brown (10yr 5/4); very sparse clay in clasts; coarse to very coarse, subangular and angular, well sorted.
- 870 - 890 Sand - Moderate yellowish brown (10yr 5/4); moderate clay and clasts of moderate brown color; fine to granule, subangular and angular, poorly sorted; contamination.
- 890 - 900 Sand - Moderate yellowish brown (10yr 5/4); sparse clay; fine to medium and granules, subangular and angular, poorly sorted; contamination.

- 900 - 910 Clay - Mixed colors; clay in large clasts of moderate brown and gray; sparse sand; fine to granule, subangular and angular, poorly sorted; very rare shell fragments, ~~and~~ glauconite and contamination; hard rock fragments.
- 910 - 930 Sand - Yellowish gray (5y 6/2); sparse clay in sand clasts; medium to coarse; at 920-930 medium to very coarse; subangular and angular, moderately well sorted; contamination - Bugs, plant debris.
- 930 - 940 Sand - Pale yellowish brown (10yr 6/2); very sparse clay; Medium to granule, subangular and angular, moderately well sorted.
- 940 - 950 Clay - Dark yellowish brown (10yr 5/2); moderate sand; medium to granule, subangular and angular, poorly sorted.
- 950-960 Clay - Light olive gray (5y 6/1); very sparse sand; medium to granule, subangular and angular, very poor sorting.
- 960 - 970 Sand - Pale yellowish brown (10yr 6/2); sparse clay; medium to coarse, subangular and angular, moderate sorting; feldspar.
- 970-- 980 Clay - Mixed colors; clay in clasts; very sparse sand; granules, subangular, no sorting; contamination and plant debris.
- 980 - 990 No Sample.
- 990 - 1000 Sand - Pale yellowish brown (10yr 6/2); sparse clay; medium to coarse, subangular, moderate sorting; feldspar; pebble.
- 1000 - 1035 No Sample.

Logged by: J. K. Polzin
August 18/19, 1980