

APT ANALYSIS

28

SITE: Savannah Club

Section 26 Township 36 S Range 40 E

724600
1082500

REPORT: Hydrogeologic Investigation of the Savannah Club, St. Lucie Co.
June 1989 by Geraghty & Miller

GEOLOGIC DATA: pg. , Appendix B

WELL NUMBER OF WELL DESCRIBED: Test Production Well

DEPTH (LSD)	LITHOLOGY
0-5	sand & organics, 85% sand, very fine to med, 15% silty organics, gray brown
5-15	sand & clay, 80% sand very fine to med, 20% clay, soft, plastic, sandy, yellow brown
15-27	silty sand, fine to med. coarse, slightly silty
27-35	shell & sand 70% shell, gray to pale orange, fragm, 20% silty sand, fine to med coarse
35-40	shell 60% fragm, clay 30% dk gray, sandy, soft, sand 10% fine
40-50	shell, sand, clay 40% shell fragm, 25% sand fine to med, clay 15% increase to 50% with depth
50-60	clay 40-50%, soft sandy; sand 30% very fine to med, some cemented, shell 20% fine to med
60-65	sandy limestone 15%, soft fine w/ shell fragm; clay 20% sandy, gray; shell 15% very coarse
65-80	Sandy limestone 60% med. hard to soft, 25% shell very fine to med fragm., 15% sand very fine
80-85	shell 40%, very fine to fine fragm., 30% sandy limestone, gray, med. hard, 30% sand fine to med
85-90	limestone 50% sandy, dk gray, med. hard; 30% shell, very fine to fine fragm., 20% sand
90-100	shell 50%, very fine to fine fragm., 30% sandy limestone, med. hard, 20% sand, very fine to med. coarse

Producing zone interval: 65-? (lsd) _____ (msl)

Aquifer name: _____

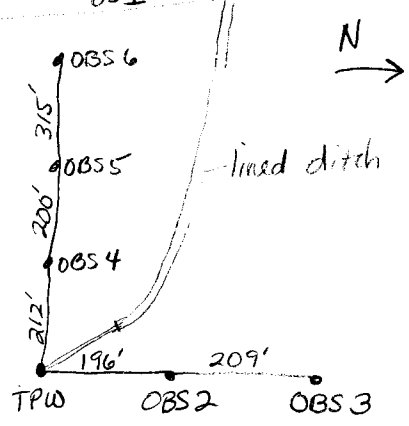
Static Water Level at the site is approximately _____ ft. msl.

WELL DESCRIPTIONS:

Well	Diam. (in)	Total Depth	Cased Depth	Scr/Open Intervl	Slot Size	Radius
TPW	8	105	70	70-100	40	0
OBS 2	2	100				196
OBS 3	2	100				405
OBS 4	2	100				212
OBS 5	2	100				412
OBS 6	2	100				727

INFLUENCING FACTORS:

APT: pg. 7
 Started: 1400 on 4/22/81
 Duration: 43 hours
 Discharge: 103 gpm
 Recovery: _____
 Comments: _____



- 1) _____
- 2) _____
- 3) _____

CONSULTANT'S ANALYSIS: pg. 8-Table 1

Method: Cooper (1963) & Hantush-Jacob (1955)
 Results: _____

Convert to day⁻¹
 $\frac{\text{gpd}}{\text{ft}^3} \times \frac{\text{ft}^3}{7.48 \text{ gal}} = \frac{1}{2}$

Well	Transmissivity (GPD/FT)	(S) or Sy	Leakance (gpd/ft ³)	(day ⁻¹)
OBS 2	2950	3.1 x 10 ⁻⁴	2.8 x 10 ⁻²	0.0037
OBS 3	10264	2.3 x 10 ⁻⁴	4.2 x 10 ⁻³	0.0006
OBS 4	6380	1.7 x 10 ⁻⁴	5.6 x 10 ⁻³	0.0007
OBS 5	9836	3.5 x 10 ⁻³	3.6 x 10 ⁻³	0.0005
OBS 6	7333	3.1 x 10 ⁻⁴	7.8 x 10 ⁻³	0.001

Comments: No correction made for partial penetration because TPW fully penetrates aquifer.

Method: Hantush (1956)
 Results: _____

Well	Transmissivity (GPD/FT)	(S) or Sy	Leakance (gpd/ft ³)	(day ⁻¹)
OBS 2	6045	2.3 x 10 ⁻⁴	5.0 x 10 ⁻³	0.0007
OBS 3	9051	2.3 x 10 ⁻⁴	6.3 x 10 ⁻³	0.0007
OBS 4	7370	1.6 x 10 ⁻⁴	4.1 x 10 ⁻³	0.0005
OBS 5	7915	2.3 x 10 ⁻⁴	6.0 x 10 ⁻³	0.0008

Comments: _____

Method: _____
 Results: _____

Well	Transmissivity (GPD/FT)	S or Sy	Leakance ()
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Comments: _____

REANALYSIS:

Method: _____

Results:

Well	Transmissivity (GPD/FT)	S or Sy	Leakance ()
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Comments: _____

Method: _____

Results:

Well	Transmissivity (GPD/FT)	S or Sy	Leakance ()
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Comments: _____

RECOMMENDED VALUES:

Transmissivity (GPD/FT)	Specific Yield or Storage	Leakance
_____	_____	_____
_____	_____	_____

REFERENCES: