

**APT ANALYSIS**

**SITE:** Jupiter Water System Wells 12, (3)14  
 Section 10 Township 41 S Range 42 E

783667  
943147

**REPORT:** \_\_\_\_\_  
 \_\_\_\_\_  
 Geraghty & Miller

**GEOLOGIC DATA:** pg. \_\_\_\_\_, \_\_\_\_\_

**WELL NUMBER OF WELL DESCRIBED:** PW-13

DEPTH (LSD)	LITHOLOGY
0-17	sand, dk brown, med to fine, trace silty clay, trace shell fragm.
17-25	sand, lt brown, med to fine, trace shell & organics
25-35	sand, gray, med to very fine, trace shell fragm.
35-40	Conglomerate, pebble size, shell fragm, trace fines, unconsol.
40-60	sand, lt gray, fine to very fine, 10-15% shell
60-80	sand, lt gray, very fine, 15% silt & clay, 15% med to very fine shell frag.
80-90	sand, lt gray, fine to med, 15% shell fragm, trace silt & clay
90-105	sand, lt gray, fine to med, 40% med to coarse shell fragm.
105-115	sand, lt gray, very fine to fine, shell fragm., 20% silt & clay
115-125	sand, lt gray, very fine to med, shell fragm., trace silt & clay
125-173	sandstone, lt gray, fine to very fine, dk gray limestone consisting of shell.
173-197	limestone, shell hash, lt gray
197-199	sandstone, gray, very fine to fine, shell fragm.
199-200	limestone, buff, dense, hard

Note:  
(Top of Hawthorn  
250-300')

Producing zone interval: 35-200 (lsd) \_\_\_\_\_ (msl)

Aquifer name: \_\_\_\_\_

Static Water Level at the site is approximately 5.70 ft. msl.

**WELL DESCRIPTIONS:**

Well	Diam. (in)	Total Depth	Cased Depth	Scr/Open Slot Intervl	Slot Size	Radius
PW-13	12	200	136			0
OB-1		145	124			408
OB-2		145	129			400
OB-3		145	124			402
TW-1		155	124			307
TW-3		160	126			310

**INFLUENCING FACTORS:**

Pumpage from wells in the on-site well field had been permitted to vary with system demand throughout the test. (1000' to 2000' feet away)  
Water levels in TW3 were affected by PW pumpage after 246 min and are of little value after that time.

APT: pg. \_\_\_\_\_

Started: Nov. 29, 1978 11:00 AM

Duration: 24 hours

Discharge: 550 to 582 gpm avg = 568 gpm

Recovery: 125 min = 2 hours

Comments:

1) Pump rate 582 gpm for first 30 min., avg. rate over 180 min was 568 gpm  
555 gpm during last 21 hours =  $\Delta$  32 gpm

2) no rainfall

3) \_\_\_\_\_

CONSULTANT'S ANALYSIS: pg. \_\_\_\_\_

Method: Boulton

Results:

Well	Transmissivity (GPD/FT)	S or Sy	Leakance ( )
<u>OB1</u>	<u>98,100</u>	<u><math>7.1 \times 10^{-4}</math></u>	<u>_____</u>
<u>OB2</u>	<u>33,300</u>	<u><math>1.5 \times 10^{-4}</math></u>	<u>_____</u>
<u>OB3</u>	<u>39,800</u>	<u><math>3.6 \times 10^{-4}</math></u>	<u>_____</u>
<u>TW-1</u>	<u>125,000</u>	<u><math>1.6 \times 10^{-4}</math></u>	<u>_____</u>
<u>TW-3</u>	<u>85,600</u>	<u><math>1.5 \times 10^{-3}</math></u>	<u>_____</u>

Comments: consultant estimated  $T = 60,000$  gpd/ft,  $S = 6 \times 10^{-4}$   $S_y = 4 \times 10^{-2}$

Method: Recovery

Results:

Well	Transmissivity (GPD/FT)	S or Sy	Leakance ( )
<u>OB4</u>	<u>103,000</u>	<u><math>5.7 \times 10^{-4}</math></u>	<u>_____</u>
<u>OB2</u>	<u>42,400</u>	<u><math>8.7 \times 10^{-5}</math></u>	<u>_____</u>
<u>TW3</u>	<u>114,000</u>	<u><math>1.2 \times 10^{-3}</math></u>	<u>_____</u>

Comments: \_\_\_\_\_

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

Results:

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

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: