

APT ANALYSIS

31

SITE: City of Stuart M 657  
 Section 4 Township 38 S Range 41 E 271122  
 801431  
 746432  
 REPORT: Ground Water Resources of the Stuart Area - Lichtler 1957 IC 12 1038737  
Geology & Ground Water Resources of Martin Co - Lichtler 1960 RI 23 m 723

GEOLOGIC DATA: pg. 92, RI 23

WELL NUMBER OF WELL DESCRIBED: M-623 ← did not add litho description to Willma, as I have no location info on this well. ? T490. C Bear m 724

DEPTH (LSD)	LITHOLOGY
0-5	sand, dk gray, med-coarse, clear to frosted
5-10	sand, dk brown, med-coarse, carbonaceous
10-20	sand, cream, med to coarse, some red brown clay, slightly carbonaceous
20-25	sand, cream, med to coarse, minor clay
25-35	as above but coarse
35-40	sand, tan, very fine to fine, minor dk gray sandy clay, mica
40-45	sand, white, fine to med, few particles gray to red brown clay, mica
45-50	sand, white, very fine, clusters of cemented sand & iron oxide, micaceous
50-52	sand, white, fine to coarse, some sandy brown clay, crystalline calcite, shell fragm.
52-55	limestone, tan-gray, hard porous, vuggy, fossiliferous, some phosphate
55-100	sand, fine to med, layers soft cream limestone & hard gray nodular sandstone (sand & shell frag)
100-110	sand, tan, fine to med, clear, shell fragm, forams

Producing zone interval: 52-? 145 (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			
						Test 1	Test 2	Test 3	Test 4
657	4	125	115	115-125	OE	0	600	-	0
656	2	145	144	144-145	"	11	-	-	-
658	4	125	115	115-125	"	100	500	500	100
659	2	125	115	115-125	"	30	300	-	-
724	4	125	115	115-125	"	-	0	750	-
723	4	125	115	115-125	"	-	-	0	-

INFLUENCING FACTORS:

See comments (next page)

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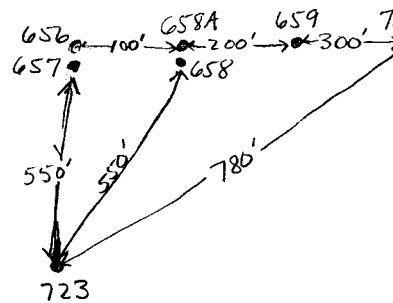


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APT: pg.				
Started:	Test 1 3/9/55	Test 2 3/23/55	Test 3 3/24/55	Test 4 5/27/55
Duration:	11 hours	5 hours	5 hours	9 hours
Discharge:	135	140	112	105
Recovery:				



Comments:

- 1) Test 1 - water discharged 75' from pumped well, water remained in vicinity, <sup>canal</sup> clogged.
- Test 2 - water discharged 200' from pumped well, remained in area, recharged aquifer
- 2) Test 3 - water discharged into depression near wells, remained in area.
- Test 4 - Wellfield shut down overnight prior to test, water discharged into city mains <sub>no recharge.</sub>
- 3) \_\_\_\_\_

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

Method: Cooper  
Results: \_\_\_\_\_

	Well	Transmissivity (GPD/FT)	S or Sy	Leakance (gpd/ft <sup>2</sup> /ft <sup>2</sup> )
Test 1	656	18,000	$2.5 \times 10^{-3}$	.237
	658	23,000	$1.5 \times 10^{-4}$	.095
	659	27,000	$3.5 \times 10^{-4}$	.048

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

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

	Well	Transmissivity (GPD/FT)	S or Sy	Leakance (gpd/ft <sup>2</sup> /ft <sup>2</sup> )
Test 2	659	17,000	$3.5 \times 10^{-4}$	.048
	658	23,000	$5.1 \times 10^{-4}$	.075
	657	24,000	$5.6 \times 10^{-4}$	.098

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

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

	Well	Transmissivity (GPD/FT)	S or Sy	Leakance (gpd/ft <sup>2</sup> /ft <sup>2</sup> )
Test 3	658	26,000	$3.8 \times 10^{-4}$	.085
	724	22,000	$6.4 \times 10^{-4}$	.174
Test 4	658	16,000	$1.0 \times 10^{-4}$	.016

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: