

APT ANALYSIS

SITE: Barron Collier (HY 314)  
Section 22 Township 47 S Range 31 E

REPORT: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

HY 314

DEPTH (LSD)	LITHOLOGY
0-40	sand, silt, limestone
40-75	limestone, 10-40% sand, high perm
75-310	sand, silt, clay, low perm
310-360	dolo silt
360-400	caliche (silt)

Static Water Level at the site is approximately +20 ft. msl.  
Base of the <sup>lower Tamiami</sup> aquifer at the site is estimated at -52 ft. msl.

WELL DESCRIPTIONS:

Well	Diam. (in)	Total Depth	Cased Depth	Screen/Open	Plane Coords.		
					r	X	Y
PW	6	80	40	.02	-		
115	2	10	5	"	78'		
10	2	80	40	"	76.6'		
MH	2	400	380	"	74.3'		
25	2	10	5	"	200.8"		
20	2	80	40	"	200.3'		

INFLUENCING FACTORS:

discharged to land surface to east - water ponded  $\approx$  800' from PW  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

Started: 5/18/87  
 Duration: 4320 m, 72h  
 Discharge: 760 gpm  
 Recovery: 5/21/87, 1723, 829.13m, 13.8h

Comments:

- 1) hand laped wells every 2 hours as check on DAS - variation < .1 ft
- 2) persons on site: Keith Smith, Karin Adams, Bill Baetknecht (5/19 only)
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_

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

Method: Cooper

Results:

Well	Transmissivity (GPD/FT)	S	Sy	<sup>gpd/ft<sup>2</sup></sup> K' / b'
10	455,966	$2.01 \times 10^{-4}$	-	$9.72 \times 10^{-3}$
20	458,366	$1.2 \times 10^{-4}$	-	$1.05 \times 10^{-2}$

Comments:

Method: GWAP

Results:

Well	Transmissivity (GPD/FT)	S	Sy	K' / b'
10	436,499	$2.088 \times 10^{-4}$	-	-
20	436,449	$1.317 \times 10^{-4}$	-	-

Comments:

Method: WHIP (Jacob)

Results:

Well	Transmissivity (GPD/FT)	S	Sy	K' / b'
10	478,421	$1.5 \times 10^{-4}$	-	-
20	498,916	$9.5 \times 10^{-5}$	-	-
optimization	500,847	$1.01 \times 10^{-4}$	-	$1.57 \times 10^{-2}$

Comments:

REANALYSIS:

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

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

Well	Transmissivity (GPD/FT)	S	Sy	K'/b'
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Comments:

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

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

Well	Transmissivity (GPD/FT)	S	Sy	K'/b'
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Comments:

RECOMMENDED VALUES:

Transmissivity (GPD/FT)	Storage	Sy	Leakance
<u>456,000 (ave)</u>	<u>1.5x10<sup>-4</sup> (ave)</u>	<u>/</u>	<u>1x10<sup>-2</sup> (ave) gpd/ft</u>

REFERENCES:

aq K 17427  
CZ K' 2.25 S ft/d

aq T-17  
B 35  
Th-52

CZ T+13  
B-17  
Th 30

location 437245  
Ty 740890