

APT ANALYSIS

SITE: Big Cypress Indian Reservation - Pasture Site
 Section 3 Township 48 S Range 33 E

REPORT: _____

GEOLOGIC DATA: pg. _____, _____

Well HY-310

DEPTH (LSD)	LITHOLOGY
0-5	Sand; yellowish brown, fine to medium
5-40	sand with 50% silt, fine to medium
40-140	limestone; biogenic, moldic, 25-40% sand, fossils
140-155	sand; lt olive gray, 10% micrite, very fine to fine, phosphate
155-200	clay; grayish olive, 15% sand
200-300	sand; olive gray, very fine to fine, low perm.
300-370	sand; olive gray, very fine to coarse, 15% clay, 15% micrite
370-450	clay; light olive gray, micrite, sand
450-482	micrite; grayish olive, 40% sand, 10% clay

Static Water Level at the site is approximately +19 ft. msl.

Base of the ^{lower Tamiami} aquifer at the site is estimated at -120 ft. msl.

WELL DESCRIPTIONS:

Well	Diam. (in)	Total Depth	Cased Depth	Screen/ Open	Plane Coords.	
					r	X Y
PW	6"	135	50	S		
1S	2"	10	5	S	195	
1D	2"	135	50	S	194.5	
2S	2"	11	3	S	50	
2D	2"	135	50	S	49	
3S	2"	11	3	S	97	
3D	2"	135	50	S	99.2	

INFLUENCING FACTORS:

- 5 4000' feet to the north a well cased 60', total depth 110', was turned on Sunday at 12 PM pumping 750 gpm. Also another well pumped at 1000 gpm was on from 9:00 Mon - 6:00 PM Tues.
- Drainage was poor and all the little farm ditches began filling with water, also when the nearby pump was shut off water levels started recovering so the test was stopped.

APT: pg. _____

Started: 2/9/87 1655
 Duration: 2646 min = 44 hours
 Discharge: 641 gpm
 Recovery: 2/11/87 1300 for 378 min = 6.3 hours

Comments:

- 1) Transducer 2 (on well 3D) started drifting immediately, and by the end of the test was 1.7' off from hand taped readings. Also transducer 6 (on well 1B) was off by .47' by end of test. Transducer 2 died 16 hours into the test.
- 2) Wells were hand taped every hour to double check the transducers.
- 3) Persons on site: Keith Smith, Karin Adams, Scott Burns, Arthur Tassinari
- 4) _____

CONSULTANT'S ANALYSIS: pg. _____

Method: Cooper
 Results: _____

Well	Transmissivity (GPD/FT)	S	Sy	K' / b' <i>gpd/ft²</i>
1D	419,733	2.2×10^{-4}	/	1.98×10^{-3}
2D	406,867	2.4×10^{-4}		9.53×10^{-4}
3D	374,897	2.86×10^{-4}		1.05×10^{-3}

Comments:

Method: GWAP
 Results: _____

Well	Transmissivity (GPD/FT)	S	Sy	K' / b'
1D	403,597	2.49×10^{-4}	/	
2D	385,501	3.68×10^{-4}		
3D	317,283	3.68×10^{-4}		

Comments:

Method: WHIP - Jacob
 Results: _____

Well	Transmissivity (GPD/FT)	S	Sy	K' / b'
1D	522,627	1.34×10^{-4}	/	
2D	539,756	5.5×10^{-5}		
3D	544,544	1.28×10^{-4}		
Optimization	434,962	2.4×10^{-3}		2.34×10^{-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>400,000</u>	<u>3×10^{-4}</u>	_____	<u>2×10^{-3} gpd/ft³</u>

REFERENCES:

ag K 535 $\frac{2}{5}$ ft/d
 CZ K' 9.4×10^{-3}
 ag T -20
 B -120
 Th 100
 HX310 { CZ T +15
 B -20
 Th 35

location * 192904
 Y 731054