

APT ANALYSIS

SITE: US Sugar - Rogers Ranch
Section 34 Township 44 S Range 32 E

REPORT: Letter to W.U.

GEOLOGIC DATA: pg. _____, _____

HM 310

DEPTH (LSD)	LITHOLOGY
<u>0-4</u>	<u>sand</u>
<u>4-27</u>	<u>calcilutite, low perm</u>
<u>27-39</u>	<u>clay</u>
<u>39-63</u>	<u>calcilutite</u>
<u>63-111</u>	<u>limestone</u>
<u>111-135</u>	<u>sandstone</u>
<u>135-140</u>	<u>clay, sand, low perm</u>

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

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

WELL DESCRIPTIONS:

Well	Diam. (in)	Total Depth	Cased Depth	Screen/Open	r	Plane Coords. X	Y
<u>PH (HM 310)</u>	<u>10</u>	<u>105</u>	<u>65</u>	<u>open</u>	<u>-</u>		
<u>HM 311</u>	<u>4</u>	<u>110</u>	<u>65</u>	<u>open</u>	<u>200'</u>		
<u>HM 313</u>	<u>4</u>	<u>15</u>	<u>5</u>	<u>S(.02)</u>	<u>200'</u>		
<u>HM 312</u>	<u>4</u>	<u>110</u>	<u>65</u>	<u>open</u>	<u>600'</u>		
<u>HM 314</u>	<u>4</u>	<u>10</u>	<u>3</u>	<u>S(.02)</u>	<u>600'</u>		
<u>HM 319</u>	<u>8</u>	<u>79</u>	<u>50</u>	<u>open</u>	<u>830'</u>		
<u>HM 320</u>	<u>8</u>	<u>66</u>	<u>46</u>	<u>open</u>	<u>2260'</u>		

INFLUENCING FACTORS:

Off site, intermittent pumpage appears to have affected late time data
Only first 3 hours of data are good

APT: pg. _____

Started: _____
Duration: 4150 m, 69.16 h
Discharge: 882 gpm
Recovery: 180m, 3h

Comments:

- 1) _____

- 2) _____

- 3) _____

- 4) _____

CONSULTANT'S ANALYSIS: pg. _____

Method: Hamtisch - Jacob

Results: gpd/ft^3

Well	Transmissivity (GPD/FT)	S	Sy	K' / b'
H4311	610,000	6×10^{-5}	-	1.4×10^{-2}
H4312	580,000	1.5×10^{-4}	-	2.1×10^{-2}
H4319	485,000	1.6×10^{-4}	-	6×10^{-2}
H4320	780,000	2.5×10^{-4}	-	3.2×10^{-2}

Comments:

Method: GWAP

Results:

Well	Transmissivity (GPD/FT)	S	Sy	K' / b'
1	441,188	6.829×10^{-5}	-	-
2	441,188	1.16×10^{-4}	-	-
3	421,262	1.755×10^{-4}	-	-
4	699,159	2.111×10^{-4}	-	-

Comments:

Method: WHIP

Results:

Well	Transmissivity (GPD/FT)	S	Sy	K' / b'
1	475,279	5.22×10^{-5}	-	1.91×10^{-2}
2	479,767	1.47×10^{-4}	-	3.73×10^{-2}
3	433,915	1.536×10^{-4}	-	5.65×10^{-2}
4	615,380	2.029×10^{-4}	-	4.17×10^{-2}
All	359,370	1.285×10^{-4}	-	8.41×10^{-2}
	364,873	1.115×10^{-4}	-	7.49×10^{-2}

Comments: only first 3 hours of data good, wells 3+4 are partially penetrating

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>440,000 (GMAP wells/42)</u>	<u>9×10^{-5}</u>	<u>/</u>	<u>5×10^{-2} gpd/ft³</u>

REFERENCES:

AY309
 ag K 6542 ft/d
 CE K' .2
 ag T -16
 B -100
 Th 90
 CE T +15
 B -16
 Th 31
 location x 464,200
 y 763,500