

APT ANALYSIS

SITE: Alico A (HY125)
Section 12 Township 45 S Range 30 E

REPORT: _____

GEOLOGIC DATA: pg. _____, _____

HY125

DEPTH (LSD)	LITHOLOGY
<u>0-19</u>	<u>sand, clay</u>
<u>19-122</u>	<u>sandstone, shell, limestone</u>
<u>122-185</u>	<u>sandstone, sand</u>
<u>185-187</u>	<u>Coarse clastics</u>
<u>187-205</u>	<u>clay, shell</u>
<u>205-235</u>	<u>sandstone, sand</u>
<u>235-280</u>	<u>sandy clay</u>
<u>280-500</u>	<u>clay, limestone</u>

Static Water Level at the site is approximately +30 ft. msl.

Base of the aquifer at the site is estimated at -155 ft. msl.

WELL DESCRIPTIONS:

Well	Diam. (in)	Total Depth	Cased Depth	Screen/ Open	Plane Coords.		
					r	X	Y
<u>PW</u>	<u>6</u>	<u>182</u>	<u>92</u>	<u>5(102)</u>	<u>-</u>		
<u>15</u>	<u>2</u>	<u>7</u>	<u>3</u>		<u>199.5'</u>		
<u>1E</u>	<u>2</u>	<u>60</u>	<u>20</u>		<u>200.8'</u>		
<u>10</u>	<u>2</u>	<u>182</u>	<u>90</u>		<u>202.65'</u>		
<u>25</u>	<u>2</u>	<u>7</u>	<u>3</u>		<u>101.5'</u>		
<u>2F</u>	<u>2</u>	<u>60</u>	<u>20</u>		<u>101.7'</u>		
<u>20</u>		<u>182</u>	<u>90</u>	<u>↓</u>	<u>99.75'</u>		

INFLUENCING FACTORS:

discharge canal ≈ 500 ft from wells, water level rose in canal throughout test

APT: pg. _____

Started: 1/25/88, 1626
Duration: 4298, 76.6h
Discharge: 1171 gpm
Recovery: 1/28/88, 1604, 12h

Comments:

- 1) hand tapped wells every 2 hours as check on DAS - variation <.1 ft
- 2) persons on site: Karin Adams, John Lukaszewicz
- 3) _____
- 4) _____

CONSULTANT'S ANALYSIS: pg. _____

Method: Couper
Results: _____

Well	Transmissivity (GPD/FT)	S	Sy	K' /b'
<u>1F</u>	<u>849,283</u>	<u>1.24 x 10⁻³</u>	<u>-</u>	<u>-</u>
<u>1D</u>	<u>919,087</u>	<u>3.6 x 10⁻⁴</u>	<u>-</u>	<u>-</u>
<u>2F</u>	<u>849,283</u>	<u>5.49 x 10⁻³</u>	<u>-</u>	<u>-</u>
<u>2D</u>	<u>938,368</u>	<u>1.51 x 10⁻⁴</u>	<u>-</u>	<u>-</u>

Comments:

Method: GWAP
Results: _____

Well	Transmissivity (GPD/FT)	S	Sy	K' /b'
<u>1F</u>	<u>751,507</u>	<u>9.052 x 10⁻⁴</u>	<u>-</u>	<u>-</u>
<u>1D</u>	<u>751,517</u>	<u>2.791 x 10⁻⁴</u>	<u>-</u>	<u>-</u>
<u>2F</u>	<u>654,566</u>	<u>4.739 x 10⁻³</u>	<u>-</u>	<u>-</u>
<u>2D</u>	<u>625,371</u>	<u>1.682 x 10⁻⁴</u>	<u>-</u>	<u>-</u>

Comments:

Method: WHIP
Results: _____

Well	Transmissivity (GPD/FT)	S	Sy	K' /b'
<u>_____</u>	<u>680,000 - 735,000</u>	<u>6.29 x 10⁻³ - 6.9 x 10⁻³</u>	<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: Intermediate wells wouldn't run in program

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>850,000 (Best Match)</u>	<u>2×10^{-3}</u>	<u>-</u>	<u>?</u>

LT

aquifer K 689 ft/d

REFERENCES:

confining zone K' ?

Aquifer Top +10
Bottom -155
Thickness 165

Confining zone Top 23
Bottom 10
Thickness 13

location (planans) ~~x = 407450~~
~~y = 818700~~ ← from map 407050
x = 406700 } program 818800
y = 8180190 }