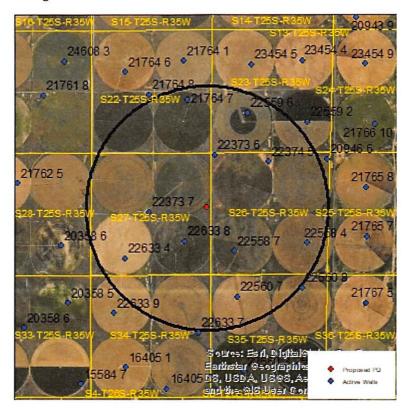
#### Evaluation of proposed move for Water Right No 22373 ID 6

Proposed: Move water right no. 22373 ID 6 a distance of 2317 ft to the south.



Wells within 1 mile: 22373 ID 7, 22633 ID 4, 22633 ID 8, 22560 ID 7, 22558 ID 4, 22558 ID 7, 22374 ID 5, 22559 ID 6, and 21764 ID7.

The saturated thickness at the proposed well location is estimated to be 340 ft, based upon the driller's log and an observation well located at the current well location for water right no. 22373 ID 6. For saturated thickness greater than 200 ft, the drawdown allowance is 4.0 ft.

**50 year Theis Analysis:** The following values were used to run the analysis:

S = 0.1205, T = 13,449 ft<sup>2</sup>/day, tp<sub>current</sub> = 256 days (based upon average use and observed rate),  $Q_{current} = 181$  gpm (based upon 2018 field inspection), tp<sub>proposed</sub> = 70 days,  $Q_{proposed} = 880$  gpm

Theis drawdowns were calculated as follows:

22373 ID 7:

Drawdown from current location = 0.90 ft

Drawdown from proposed location = 2.03 ft

Net drawdown = 1.1 ft

22633 ID 4:

Drawdown from current location = 0.74 ft

Drawdown from proposed location = 1.38 ft

Net drawdown = 0.6 ft

22633 ID 8:

Drawdown from current location = 0.89 ft

Drawdown from proposed location = 2.67 ft

Net drawdown = 1.8 ft

22560 ID 7:

Drawdown from current location = 0.72 ft

Drawdown from proposed location = 1.42 ft

Net drawdown = 0.7 ft

22558 ID 4:

Drawdown from current location = 0.76 ft

Drawdown from proposed location = 1.27 ft

Net drawdown = **0.5** ft

22558 ID 7:

Drawdown from current location = 0.86 ft

Drawdown from proposed location = 2.26 ft

Net drawdown = 1.4 ft

22374 ID 5:

Drawdown from current location = 1.09 ft

Drawdown from proposed location = 1.65 ft

Net drawdown = **0.6** ft

22559 ID 6:

Drawdown from current location = 1.10 ft

Drawdown from proposed location = 1.31 ft

Net drawdown = 0.2 ft

21764 ID 7:

Drawdown from current location = 1.05 ft

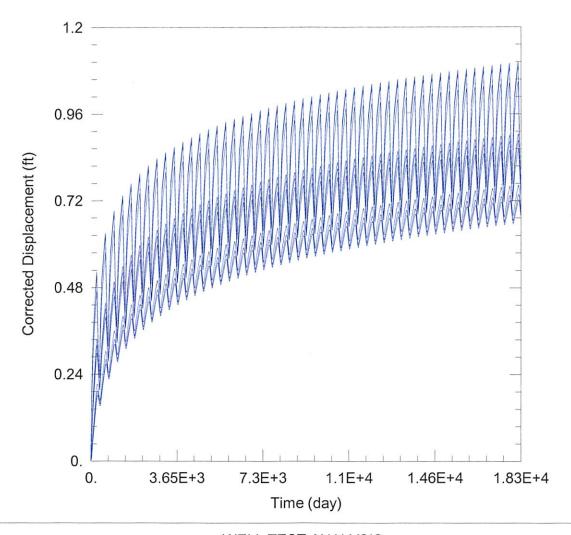
Drawdown from proposed location = 1.24 ft

Net drawdown = 0.2 ft

Net drawdown does not exceed the drawdown allowance of 4.0 ft for any neighboring wells, so critical well analysis is not necessary.

#### **Conclusion:**

Net effects on neighboring wells as a result of this proposal are expected to be negligible. Impairment is unlikely to occur. GMD3 staff recommends approval of this application.



# WELL TEST ANALYSIS

### PROJECT INFORMATION

Company: GMD 3 Project: 22373

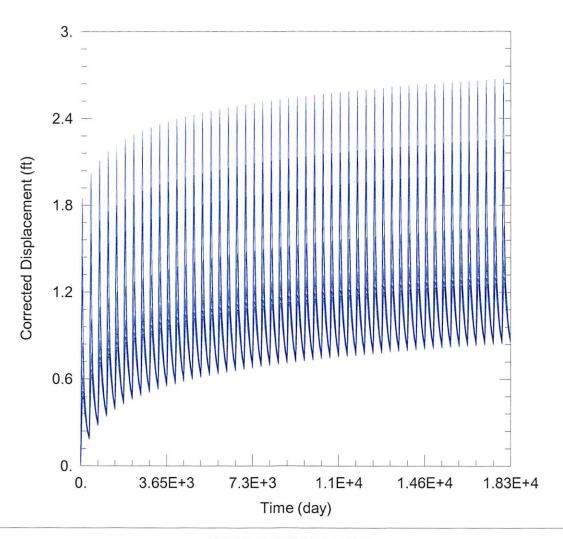
Location: Kearny County

Test Well: 22373

# WELL DATA

Pumpin	g Wells		Obs	ervation Wells	
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
22373 ID6	-98284	357933		-98284	357933
			□ 22373 ID7	-101143	355445
			□ 22633 ID4	-102196	353453
			□ 22633 ID8	-99606	354190
			□ 22560 ID7	-97290	351818
			□ 22558 ID4	-94253	354121
			□ 22558 ID7	-97427	353780
			□ 22374 ID5	-95941	357640
			□ 22559 ID6	-96877	359756
			□ 21764 ID7	-99467	360289

### SOLUTION



### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2019\_moves\22373\22373 Proposed.aqt

Date: 12/02/19

Time: 16:33:57

### PROJECT INFORMATION

Company: GMD 3 Project: 22373

Location: Kearny County

Test Well: 22373

## **WELL DATA**

Pumping Wells					
Well Name	X (ft)	Y (ft)			
22373 ID6	-98625	355641			

Well Name	X (ft)	Y (ft)
0	-98625	355641
□ 22373 ID7	-101143	355445
□ 22633 ID4	-102196	353453
□ 22633 ID8	-99606	354190
□ 22560 ID7	-97290	351818
□ 22558 ID4	-94253	354121
□ 22558 ID7	-97427	353780
□ 22374 ID5	-95941	357640
□ 22559 ID6	-96877	359756

-99467

360289

**Observation Wells** 

#### SOLUTION

Califica Mathed Thais

□ 21764 ID7