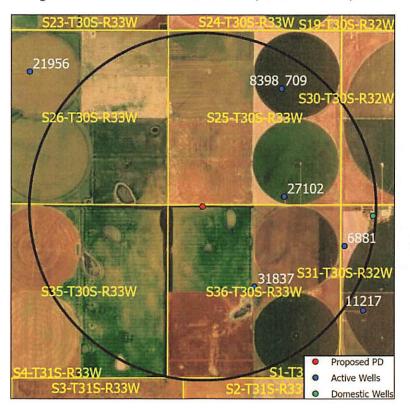
Evaluation of proposed move for Water Right No. 27102

Proposed: Move water right no. 27102 to a new well location, a distance of 2,501 ft to the southwest.



Wells within 1 mile: 709 & 8398, 31837, 6881, and a domestic well in section 31-30-32.

The saturated thickness at the proposed well location is estimated to be 147 ft, based upon the GMD3 model. For saturated thickness between than 125 ft and 150 ft, the drawdown allowance is 3.0 ft.

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

S = 0.095, T = 53,670 ft²/day, $tp_{current} = 104$ days (based on average use and observed rate), $Q_{current} = 552$ gpm (based on 2019 field inspection), $tp_{proposed} = 100$ days, $Q_{proposed} = 1275$ gpm

Theis drawdowns were calculated as follows:

709 & 8398:

Drawdown from current location = 0.59 ft

Drawdown from proposed location = 1.15 ft

Net drawdown = 0.6 ft

31837:

Drawdown from current location = 0.63 ft

Drawdown from proposed location = 1.43 ft

Net drawdown = 0.8 ft

6881: Drawdown from current location = 0.69 ft

Drawdown from proposed location = 1.13 ft

Net drawdown = 0.4 ft

Domestic 31-30-32: Drawdown from current location = 0.65 ft

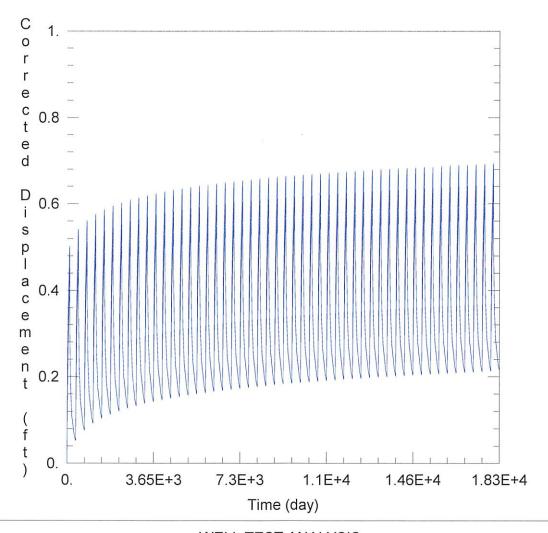
Drawdown from proposed location = 1.03 ft

Net drawdown = **0.4** ft

Net drawdown does not exceed the drawdown allowance of 3.0 ft for any well within 1 mile of the proposed location. Therefore, critical well analysis is not necessary.

Conclusion:

The proposed move is likely to create minimal effects on neighboring wells and appears unlikely to cause impairment. Any concerned neighbors should contact GMD3 at (620) 275-7147 or the Division of Water Resources at (620) 276-2901.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024_moves\27102\27102 Current.aqt

Date: 07/30/24

Time: 14:19:00

PROJECT INFORMATION

Company: GMD 3 Project: 27102

Location: Haskell County

WELL DATA

Pumping Wells

X (ft) Y (ft) -22529 192239

Well Name	X (ft)	Y (ft)
	-22529	192239
709 & 8398	-22607	195520
31837	-23431	189509
□ 6881	-20700	190737
 Domestic 31-30-32 	-19830	191659

Observation Wells

SOLUTION

Aquifer Model: Unconfined

= 5.367E+4 ft²/day

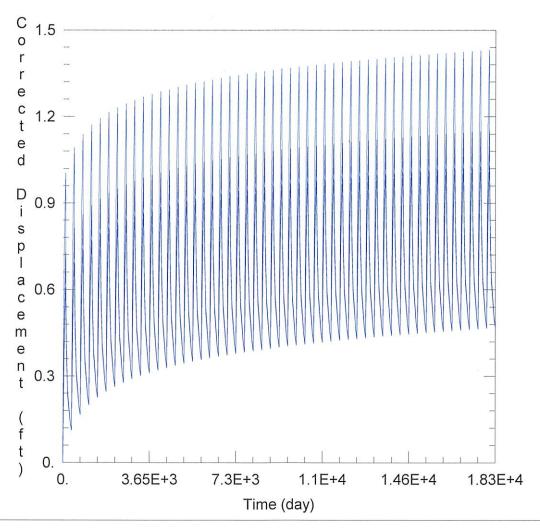
Kz/Kr = 1.

Well Name

27102

Solution Method: Theis

S = 0.095b = 147. ft



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024_moves\27102\27102 Proposed.aqt

Date: 07/30/24

Time: 14:18:54

PROJECT INFORMATION

Company: GMD 3 Project: 27102

Location: Haskell County

WELL DATA

Pumping Wells

(ft) Well Name

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Well Name	X (ft)	Y (ft)
27102	-25010	191924

Well Name	X (ft)	Y (ft)
0	-25010	191924
709 & 8398	-22607	195520
31837	-23431	189509
6881	-20700	190737
 Domestic 31-30-32 	-19830	191659

Observation Wells

SOLUTION

Aquifer Model: Unconfined

 $= 5.367E+4 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

Solution Method: Theis

S = 0.095b = 147. ft