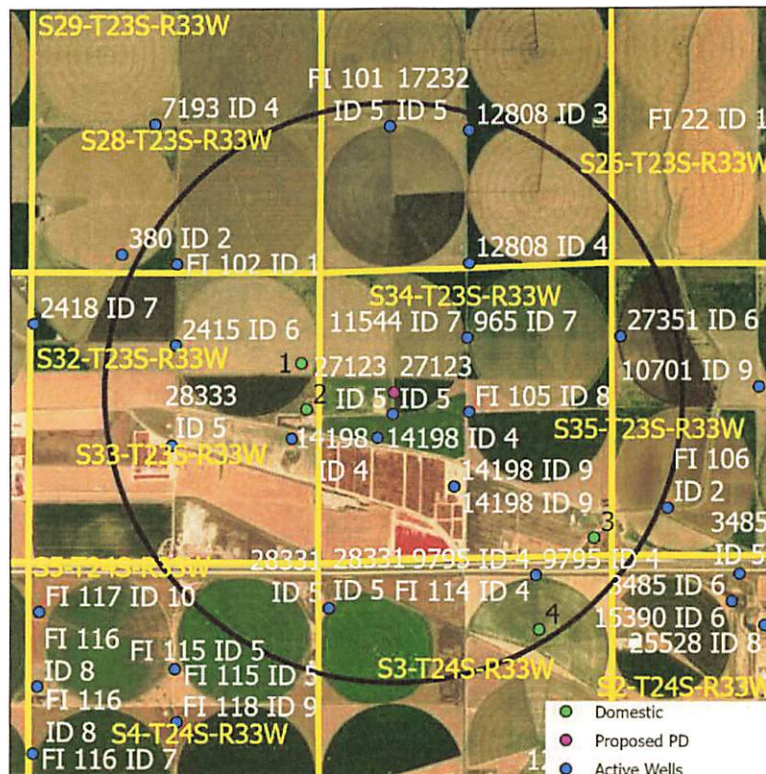


## Evaluation of proposed move for Water Right No. 27123

Proposed: Move water right no. 27123 to a new well location, a distance of 769 ft to the north.



Wells within 1 mile: FI102, FI101 & 17232, 12808 ID3, 12808 ID4, 2415, 28333, 14198 ID9 S33, 965 & 11544, 14198 ID4, FI105, 14198 ID9 S34, 27351, 28331, FI114 & 9795, and two domestic wells in section 33-23-33, a domestic well in section 34-23-33, and a domestic well in section 3-24-33.

The saturated thickness at the proposed well location is estimated to be 140.9 ft, based upon the GMD3 model. For saturated thickness between 125-150 ft, the drawdown allowance is 3.0 ft.

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

$S = 0.1297$ ,  $T = 12,341.29 \text{ ft}^2/\text{day}$ ,  $tp_{\text{current}} = 33$  days (based on average use and observed rate),  
 $Q_{\text{current}} = 700$  gpm (based on 2020 water use report),  $tp_{\text{proposed}} = 36$  days,  $Q_{\text{proposed}} = 1440$  gpm

Theis drawdowns were calculated as follows:

FI102: Drawdown from current location = 0.49 ft  
 Drawdown from proposed location = 1.13 ft  
 Net drawdown = **0.6 ft**

FI101 & 17232: Drawdown from current location = 0.45 ft  
 Drawdown from proposed location = 1.09 ft  
 Net drawdown = **0.6 ft**

12808 ID3: Drawdown from current location = 0.45 ft  
Drawdown from proposed location = 1.07 ft  
Net drawdown = **0.6 ft**

12808 ID4: Drawdown from current location = 0.73 ft  
Drawdown from proposed location = 1.82 ft  
Net drawdown = **1.1 ft**

2415: Drawdown from current location = 0.54 ft  
Drawdown from proposed location = 1.24 ft  
Net drawdown = **0.7 ft**

28333: Drawdown from current location = 0.55 ft  
Drawdown from proposed location = 1.22 ft  
Net drawdown = **0.7 ft**

14198 ID9 S33: Drawdown from current location = 1.16 ft  
Drawdown from proposed location = 2.37 ft  
Net drawdown = **0.7 ft**

965 & 11544: Drawdown from current location = 1.12 ft  
Drawdown from proposed location = 2.91 ft  
Net drawdown = **1.8 ft**

14198 ID4: Drawdown from current location = 3.20 ft  
Drawdown from proposed location = 5.0 ft  
Net drawdown = **1.8 ft**

FI105: Drawdown from current location = 1.61 ft  
Drawdown from proposed location = 3.43 ft  
Net drawdown = **1.8 ft**

14198 ID9 S34: Drawdown from current location = 1.29 ft  
Drawdown from proposed location = 2.39 ft  
Net drawdown = **1.1 ft**

27351: Drawdown from current location = 0.52 ft  
Drawdown from proposed location = 1.20 ft  
Net drawdown = **0.7 ft**

28331: Drawdown from current location = 0.60 ft  
Drawdown from proposed location = 1.23 ft  
Net drawdown = **0.6 ft**

F1114 & 9795: Drawdown from current location = 0.57 ft  
Drawdown from proposed location = 1.21 ft  
Net drawdown = **0.6 ft**

Domestic 1 33-23-33: Drawdown from current location = 1.15 ft  
Drawdown from proposed location = 2.77 ft  
Net drawdown = **1.6 ft**

Domestic 2 33-23-33: Drawdown from current location = 1.41 ft  
Drawdown from proposed location = 3.02 ft  
Net drawdown = **1.6 ft**

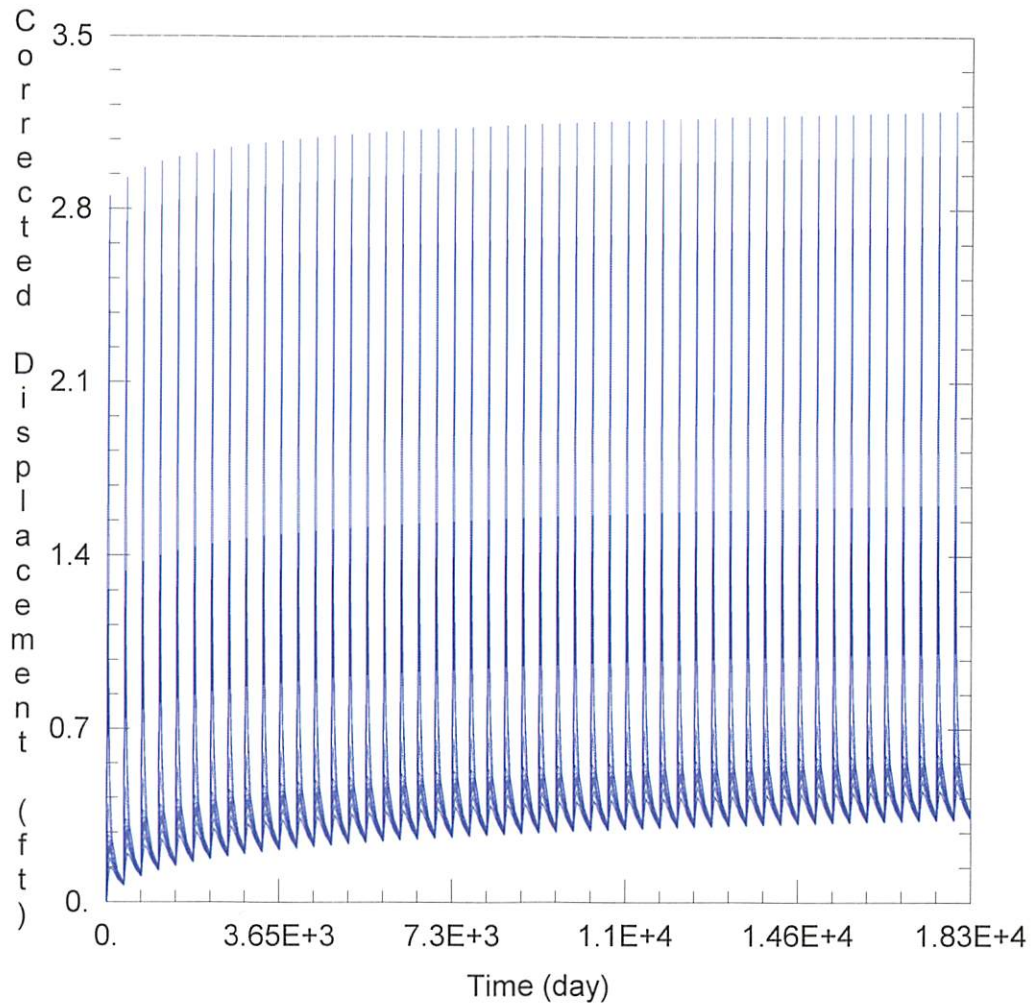
Domestic 34-23-33: Drawdown from current location = 0.53 ft  
Drawdown from proposed location = 1.2 ft  
Net drawdown = **0.6 ft**

Domestic 3-24-33: Drawdown from current location = 0.49 ft  
Drawdown from proposed location = 1.05 ft  
Net drawdown = **0.6 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\scanstation\Documents\move requests\27123\27123 current.aqt  
 Date: 05/23/24 Time: 16:38:05

PROJECT INFORMATION

Project: 41295 42758  
 Test Well: 27123

WELL DATA

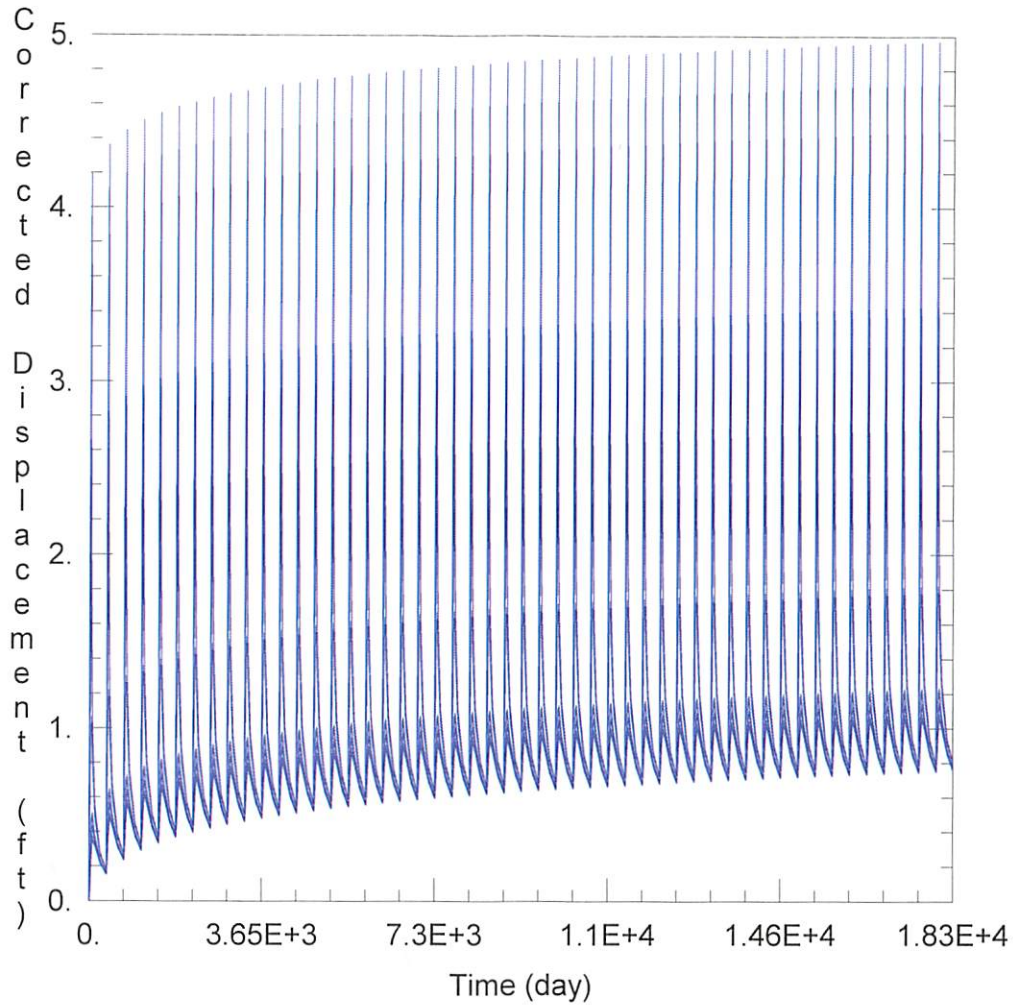
Pumping Wells

Well Name	X (ft)	Y (ft)
27123	-38797	413658

Observation Wells

Well Name	X (ft)	Y (ft)
□	-38797	413658
□ FI 102	-42743	416410
□ FI 101 & 17232	-38845	418906
□ 12808 ID 3	-37407	418831
□ 12808 ID 4	-37411	416428
□ 2415	-42766	414921
□ 28333	-42832	413085
□ 14198	-40642	413213
□ 11544 & 965	-37441	415066
□ 14198 ID4	-39086	413225
□ FI 105	-37414	413704
□ 14198 ID9	-37678	412353
□ 27351	-34647	415091
□ 28331	-39955	410139
□ FI 114 & 9795	-36179	410749





WELL TEST ANALYSIS

Data Set: C:\Users\scanstation\Documents\move requests\27123\27123 proposed.aqt  
 Date: 05/23/24 Time: 16:36:53

PROJECT INFORMATION

Project: 41295 42758  
 Test Well: 27123

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
27123	-38784	414054

Observation Wells

Well Name	X (ft)	Y (ft)
□	-38784	414054
□ FI 102	-42743	416410
□ FI 101 & 17232	-38845	418906
□ 12808 ID 3	-37407	418831
□ 12808 ID 4	-37411	416428
□ 2415	-42766	414921
□ 28333	-42832	413085
□ 14198	-40642	413213
□ 11544 & 965	-37441	415066
□ 14198 ID4	-39086	413225
□ FI 105	-37414	413704
□ 14198 ID9	-37678	412353
□ 27351	-34647	415091
□ 28331	-39955	410139
□ FI 114 & 9795	-36179	410749