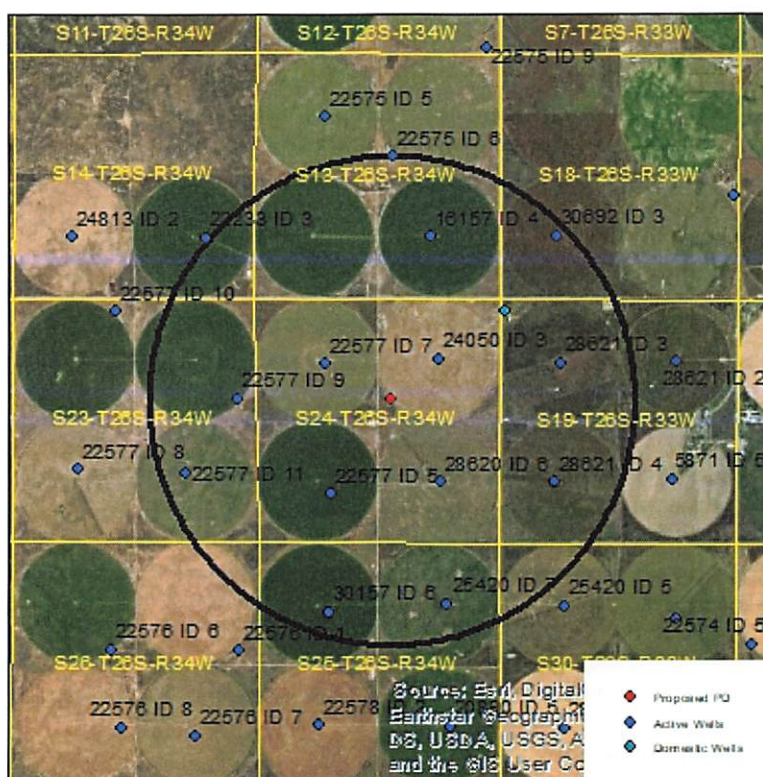


## Evaluation of proposed move for Water Right No. 24050

Proposed: Move water right no. 24050 to a new well location, a distance of 1,347 ft to the southwest.



Wells within 1 mile: 16157, 30692, 22577 ID5, 22577 ID7, 22577 ID9, 22577 ID11, 28620, 28621 ID3, 28621 ID4, 30157, 25420, and a domestic well in section 19-26-33.

The saturated thickness at the proposed well location is estimated to be 204 ft, based upon the GMD3 model. 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:

$S = 0.1332$ ,  $T = 7251 \text{ ft}^2/\text{day}$ ,  $tp_{\text{current}} = 166 \text{ days}$  (based on average use and observed rate),  $Q_{\text{current}} = 304 \text{ gpm}$  (based on 2019 field inspection),  $tp_{\text{proposed}} = 62 \text{ days}$ ,  $Q_{\text{proposed}} = 950 \text{ gpm}$

Theis drawdowns were calculated as follows:

16157: Drawdown from current location = 2.01 ft  
Drawdown from proposed location = 2.10 ft  
Net drawdown = **0.1 ft**

30692: Drawdown from current location = 1.66 ft  
Drawdown from proposed location = 1.65 ft  
Net drawdown = **0.0 ft**

22577 ID5: Drawdown from current location = 1.65 ft  
Drawdown from proposed location = 2.89 ft  
Net drawdown = **1.2 ft**

22577 ID7: Drawdown from current location = 2.07 ft  
Drawdown from proposed location = 3.91 ft  
Net drawdown = **1.8 ft**

22577 ID9: Drawdown from current location = 1.49 ft  
Drawdown from proposed location = 2.19 ft  
Net drawdown = **0.7 ft**

22577 ID11: Drawdown from current location = 1.25 ft  
Drawdown from proposed location = 1.70 ft  
Net drawdown = **0.5 ft**

28620: Drawdown from current location = 1.99 ft  
Drawdown from proposed location = 3.24 ft  
Net drawdown = **1.2 ft**

28621 ID3: Drawdown from current location = 2.00 ft  
Drawdown from proposed location = 2.05 ft  
Net drawdown = **0.0 ft**

28621 ID4: Drawdown from current location = 1.67 ft  
Drawdown from proposed location = 1.97 ft  
Net drawdown = **0.3 ft**

30157: Drawdown from current location = 1.25 ft  
Drawdown from proposed location = 1.70 ft  
Net drawdown = **0.4 ft**

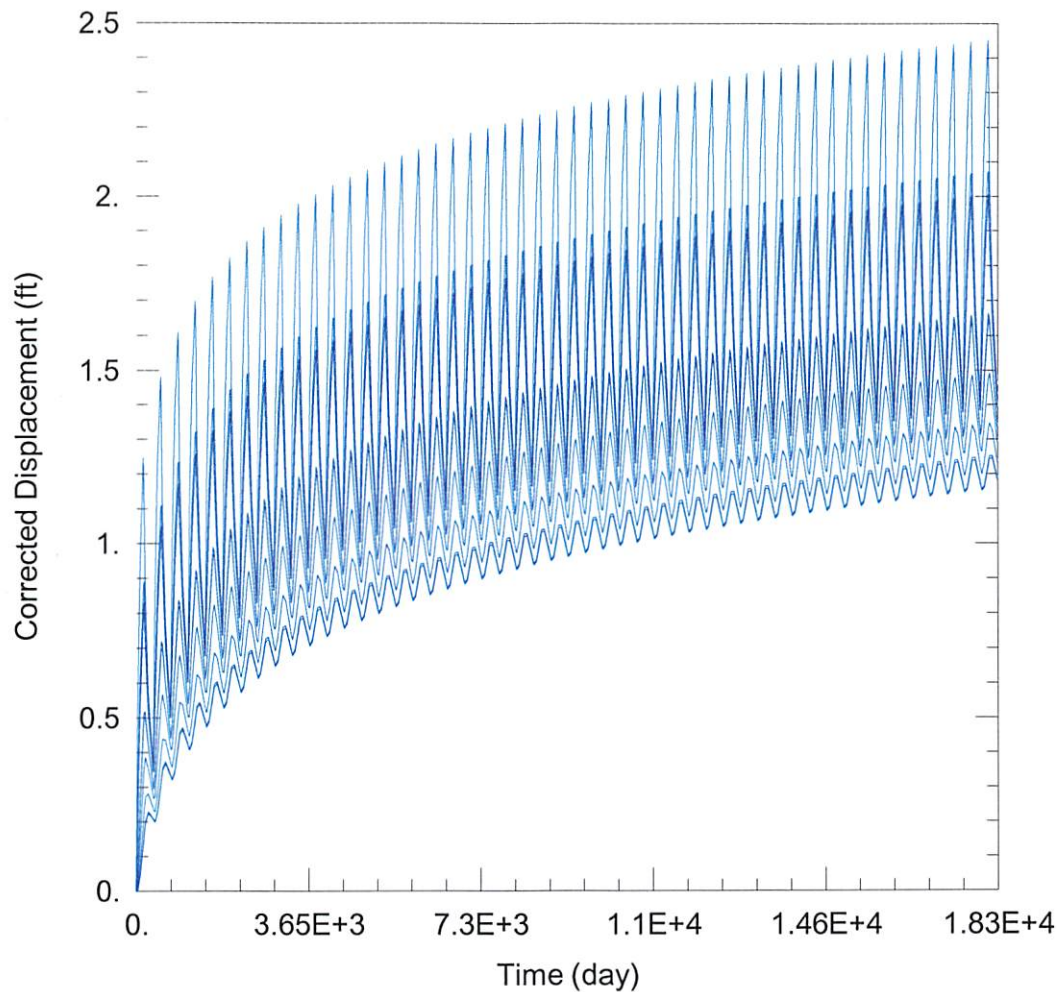
25420: Drawdown from current location = 1.35 ft  
Drawdown from proposed location = 1.76 ft  
Net drawdown = **0.4 ft**

Domestic 19-26-33:      Drawdown from current location = 2.45 ft  
                                 Drawdown from proposed location = 2.32 ft  
                                 Net drawdown = **-0.1 ft**

Net drawdown does not exceed the drawdown allowance of 4.0 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\2022\_moves\24050\24050 Current.aqt

Date: 06/06/22

Time: 16:54:01

### PROJECT INFORMATION

Company: GMD 3

Project: 24050

Location: Finney County

### WELL DATA

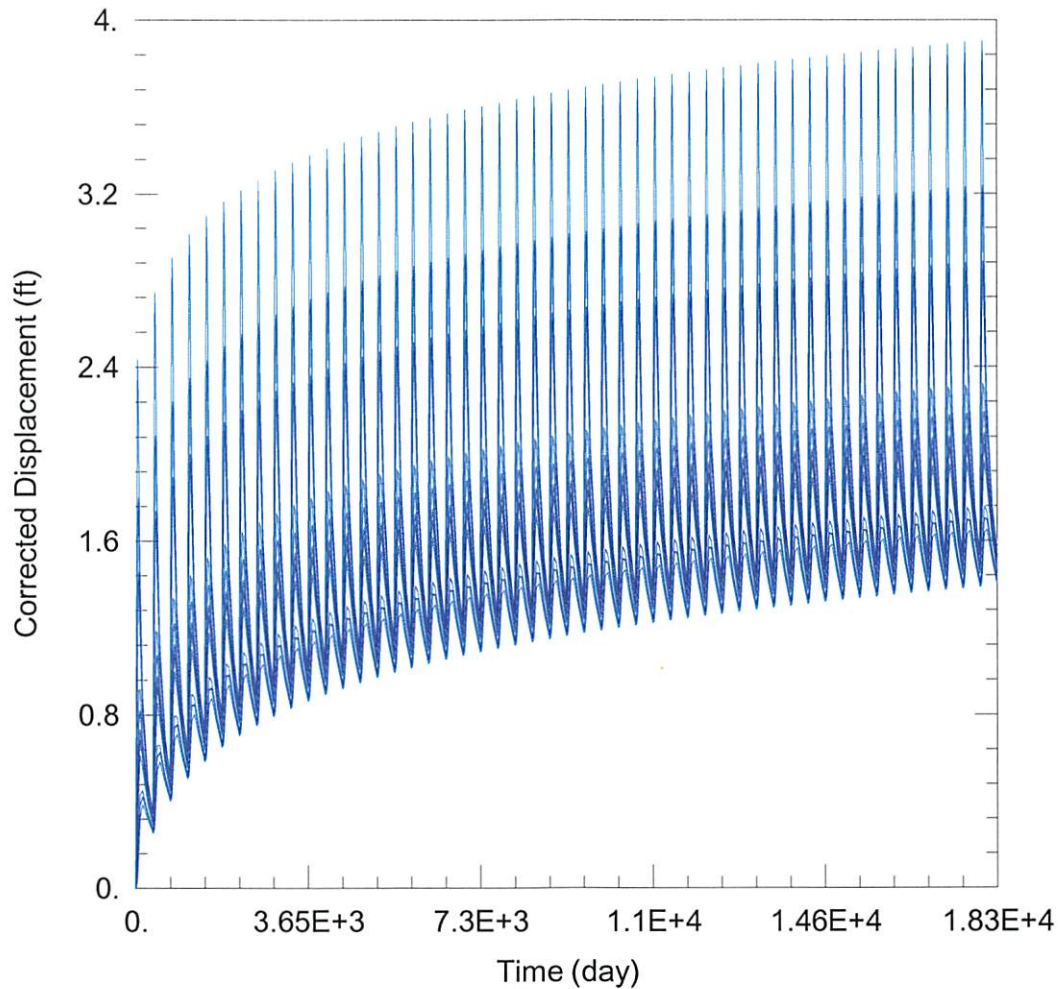
#### Pumping Wells

Well Name	X (ft)	Y (ft)
24050	-53562	328416

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	-53562	328416
□ 16157	-53739	331035
□ 30692	-50996	331070
□ 22577 ID5	-55892	325479
□ 22577 ID7	-56022	328309
□ 22577 ID9	-57940	327551
□ 22577 ID11	-59065	325922
□ 28620	-53492	325743
□ 28621 ID3	-50915	328335
□ 28621 ID4	-51035	325750
□ 30157	-55955	322937
□ 25420	-53353	323107
□ Domestic 19-26-33	-52103	329433





### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022\_moves\24050\24050 Proposed.aqt

Date: 06/06/22

Time: 16:53:52

### PROJECT INFORMATION

Company: GMD 3

Project: 24050

Location: Finney County

### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
24050	-54571	327523

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	-54571	327523
□ 16157	-53739	331035
□ 30692	-50996	331070
□ 22577 ID5	-55892	325479
□ 22577 ID7	-56022	328309
□ 22577 ID9	-57940	327551
□ 22577 ID11	-59065	325922
□ 28620	-53492	325743
□ 28621 ID3	-50915	328335
□ 28621 ID4	-51035	325750
□ 30157	-55955	322937
□ 25420	-53353	323107
□ Domestic 19-26-33	-52103	329433