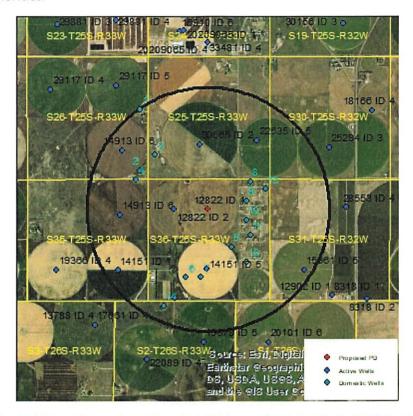
### Evaluation of proposed move for Water Right No. 12822

Proposed: Move water right no. 12822 ID2 to the well location currently authorized under 12822 ID1 and combine authorities.



Wells within 1 mile: 14913 ID6 in section 26, 14916 ID6 in section 35, 30565, 22535, 14151 ID1, 14151 ID5, 23166, 15961, and 14 domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 232 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 = 0.1442, T = 13,685 ft<sup>2</sup>/day,

ID1:  $tp_{current} = 120$  days (assumed),  $Q_{current} = 546$  gpm (based on average use and assumed time operated),  $tp_{proposed} = 155$  days,  $Q_{proposed} = 546$  gpm

ID2:  $tp_{current} = 120 \text{ days (assumed)}$ ,  $Q_{current} = 99 \text{ gpm (based on average use and assumed time operated)}$ ,  $tp_{proposed} = 0 \text{ days}$ ,  $Q_{proposed} = 0 \text{ gpm}$ 

Theis drawdowns were calculated as follows:

14913 ID6 S26:

Drawdown from current location = 1.49 ft

Drawdown from proposed location = 1.55 ft

Net drawdown = 0.1 ft

14913 ID6 S35: Drawdown from current location = 1.70 ft

Drawdown from proposed location = 1.70 ft

Net drawdown = 0.0 ft

30565: Drawdown from current location = 1.95 ft

Drawdown from proposed location = 2.02 ft

Net drawdown = 0.1 ft

22535: Drawdown from current location = 1.64 ft

Drawdown from proposed location = 1.76 ft

Net drawdown = 0.1 ft

14151 ID1: Drawdown from current location = 1.45 ft

Drawdown from proposed location = 1.51 ft

Net drawdown = **0.1** ft

14151 ID5: Drawdown from current location = 2.03 ft

Drawdown from proposed location = 2.11 ft

Net drawdown = 0.1 ft

23166: Drawdown from current location = 1.56 ft

Drawdown from proposed location = 1.64 ft

Net drawdown = **0.1** ft

15961: Drawdown from current location = 1.35 ft

Drawdown from proposed location = 1.48 ft

Net drawdown = 0.1 ft

Domestic 1: Drawdown from current location = 1.35 ft

Drawdown from proposed location = 1.43 ft

Net drawdown = 0.1 ft

Domestic 2: Drawdown from current location = 1.83 ft

Drawdown from proposed location = 1.83 ft

Net drawdown = 0.0 ft

Domestic 3: Drawdown from current location = 1.84 ft

Drawdown from proposed location = 1.87 ft

Net drawdown = 0.0 ft

Domestic 4: Drawdown from current location = 1.84 ft

Drawdown from proposed location = 1.84 ft

Net drawdown = 0.0 ft

Domestic 5: Drawdown from current location = 2.37 ft

Drawdown from proposed location = 2.46 ft

Net drawdown = 0.1 ft

Domestic 6: Drawdown from current location = 1.86 ft

Drawdown from proposed location = 1.92 ft

Net drawdown = **0.1** ft

Domestic 7: Drawdown from current location = 1.90 ft

Drawdown from proposed location = 1.97 ft

Net drawdown = 0.1 ft

Domestic 8: Drawdown from current location = 2.19 ft

Drawdown from proposed location = 2.31 ft

Net drawdown = 0.1 ft

Domestic 9: Drawdown from current location = 2.50 ft

Drawdown from proposed location = 2.60 ft

Net drawdown = **0.1** ft

Domestic 10: Drawdown from current location = 2.48 ft

Drawdown from proposed location = 2.58 ft

Net drawdown = 0.1 ft

Domestic 11: Drawdown from current location = 2.21 ft

Drawdown from proposed location = 2.33 ft

Net drawdown = 0.1 ft

Domestic 12:

Drawdown from current location = 1.91 ft

Drawdown from proposed location = 2.02 ft

Net drawdown = 0.1 ft

Domestic 13:

Drawdown from current location = 1.97 ft

Drawdown from proposed location = 2.10 ft

Net drawdown = 0.1 ft

Domestic 14:

Drawdown from current location = 1.46 ft

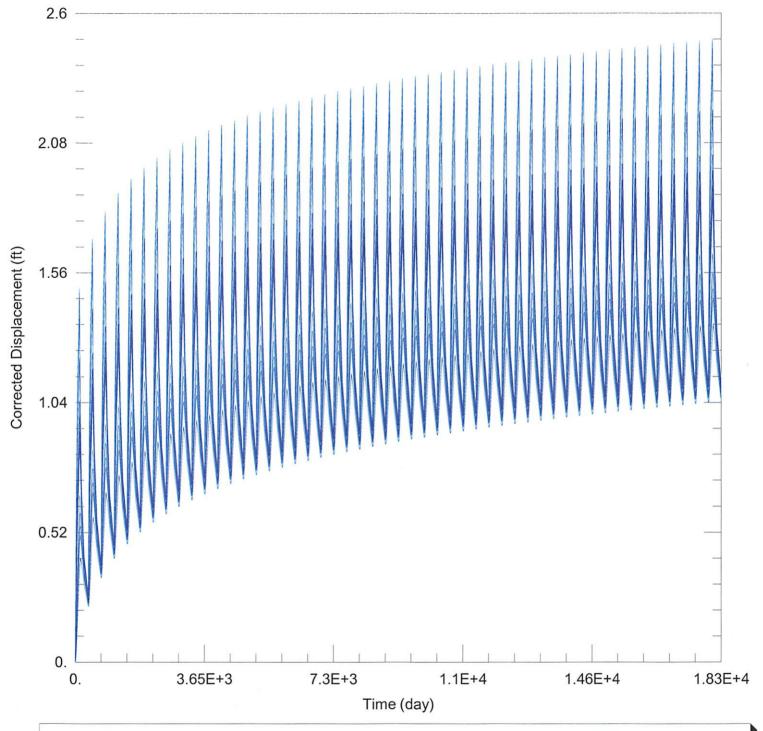
Drawdown from proposed location = 1.54 ft

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\2023\_moves\12822\12822 Current.aqt

Date: 02/14/23 Time: 16:53:35

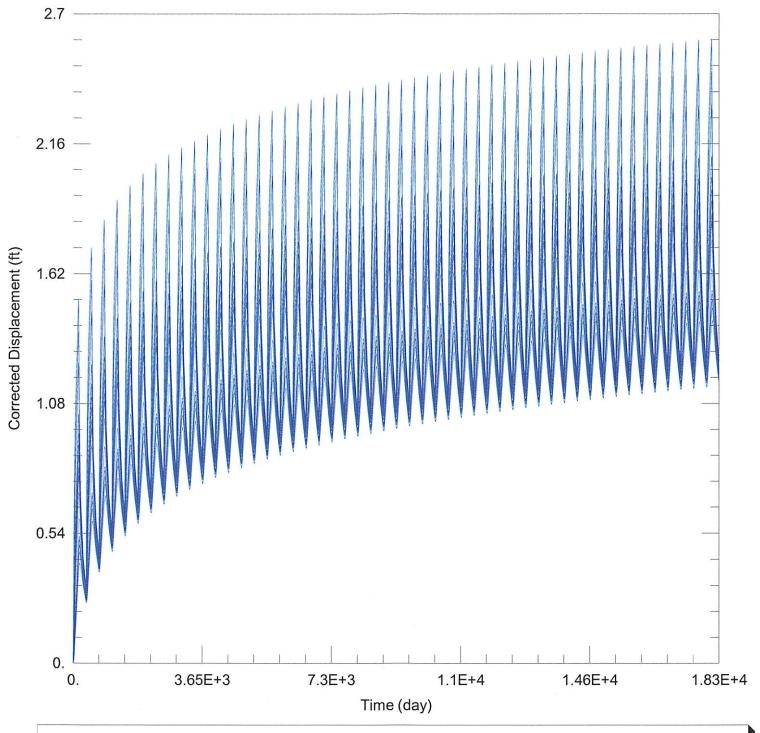
# PROJECT INFORMATION

Company: GMD 3 Project: 12822

Location: Finney County

## WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
12822 ID1	-26974	351577		-26974	351577



# WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023\_moves\12822\12822 Proposed.aqt

Date: 02/14/23 Time: 16:53:24

### PROJECT INFORMATION

Company: GMD 3 Project: 12822

Location: Finney County

# **WELL DATA**

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
12822 ID1	-26974	351577		-26974	351577