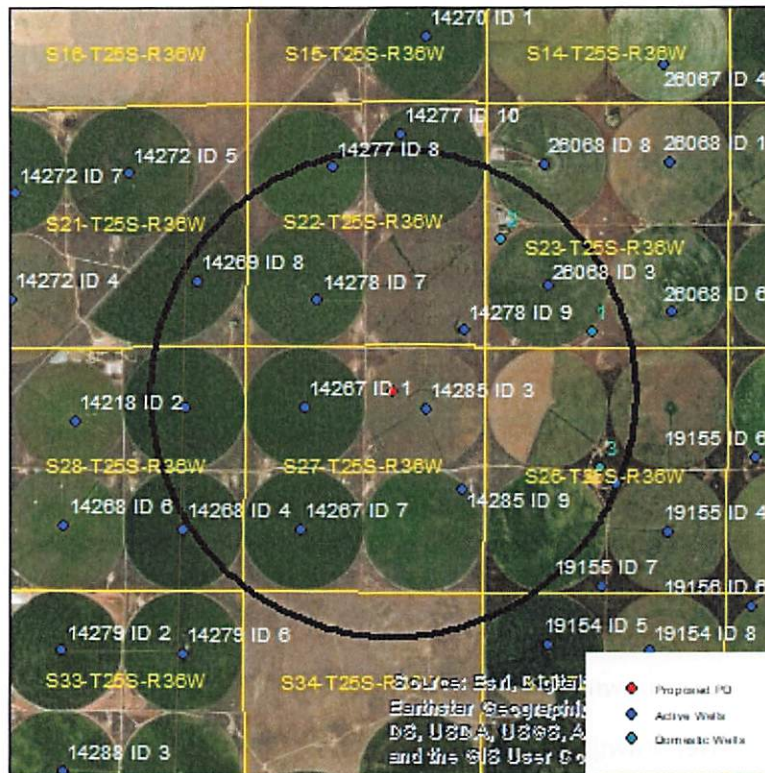


**Evaluation of proposed move for Water Right No. 14285**

Proposed: Move water right no. 14285 ID3 to a new well location, a distance of 802 ft to the northwest.



Wells within 1 mile: 14285 ID9, 14269, 14277, 14278 ID7, 14278 ID9, 26068, 14218, 14267 ID1, 14267 ID7, 19155, and three domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 230 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:

$S = 0.07438$ ,  $T = 10,909 \text{ ft}^2/\text{day}$ ,  $t_{p_{\text{current}}} = 115 \text{ days}$  (based on average use and observed rate),  $Q_{\text{current}} = 450 \text{ gpm}$  (based on 2022 field inspection),  $t_{p_{\text{proposed}}} = 76 \text{ days}$ ,  $Q_{\text{proposed}} = 870 \text{ gpm}$

Theis drawdowns were calculated as follows:

- 14285 ID9:
  - Drawdown from current location = 2.34 ft
  - Drawdown from proposed location = 2.86 ft
  - Net drawdown = **0.5 ft**
  
- 14269:
  - Drawdown from current location = 1.22 ft
  - Drawdown from proposed location = 1.78 ft
  - Net drawdown = **0.6 ft**

14277: Drawdown from current location = 1.23 ft  
Drawdown from proposed location = 1.75 ft  
Net drawdown = **0.5 ft**

14278 ID7: Drawdown from current location = 1.72 ft  
Drawdown from proposed location = 2.88 ft  
Net drawdown = **1.2 ft**

14278 ID9: Drawdown from current location = 2.36 ft  
Drawdown from proposed location = 3.37 ft  
Net drawdown = **1.0 ft**

26068: Drawdown from current location = 1.60 ft  
Drawdown from proposed location = 2.06 ft  
Net drawdown = **0.5 ft**

14218: Drawdown from current location = 1.28 ft  
Drawdown from proposed location = 1.89 ft  
Net drawdown = **0.6 ft**

14267 ID1: Drawdown from current location = 1.98 ft  
Drawdown from proposed location = 3.51 ft  
Net drawdown = **1.5 ft**

14267 ID7: Drawdown from current location = 1.59 ft  
Drawdown from proposed location = 2.28 ft  
Net drawdown = **0.7 ft**

19155: Drawdown from current location = 1.43 ft  
Drawdown from proposed location = 1.70 ft  
Net drawdown = **0.3 ft**

Domestic 1: Drawdown from current location = 1.54 ft  
Drawdown from proposed location = 1.89 ft  
Net drawdown = **0.4 ft**

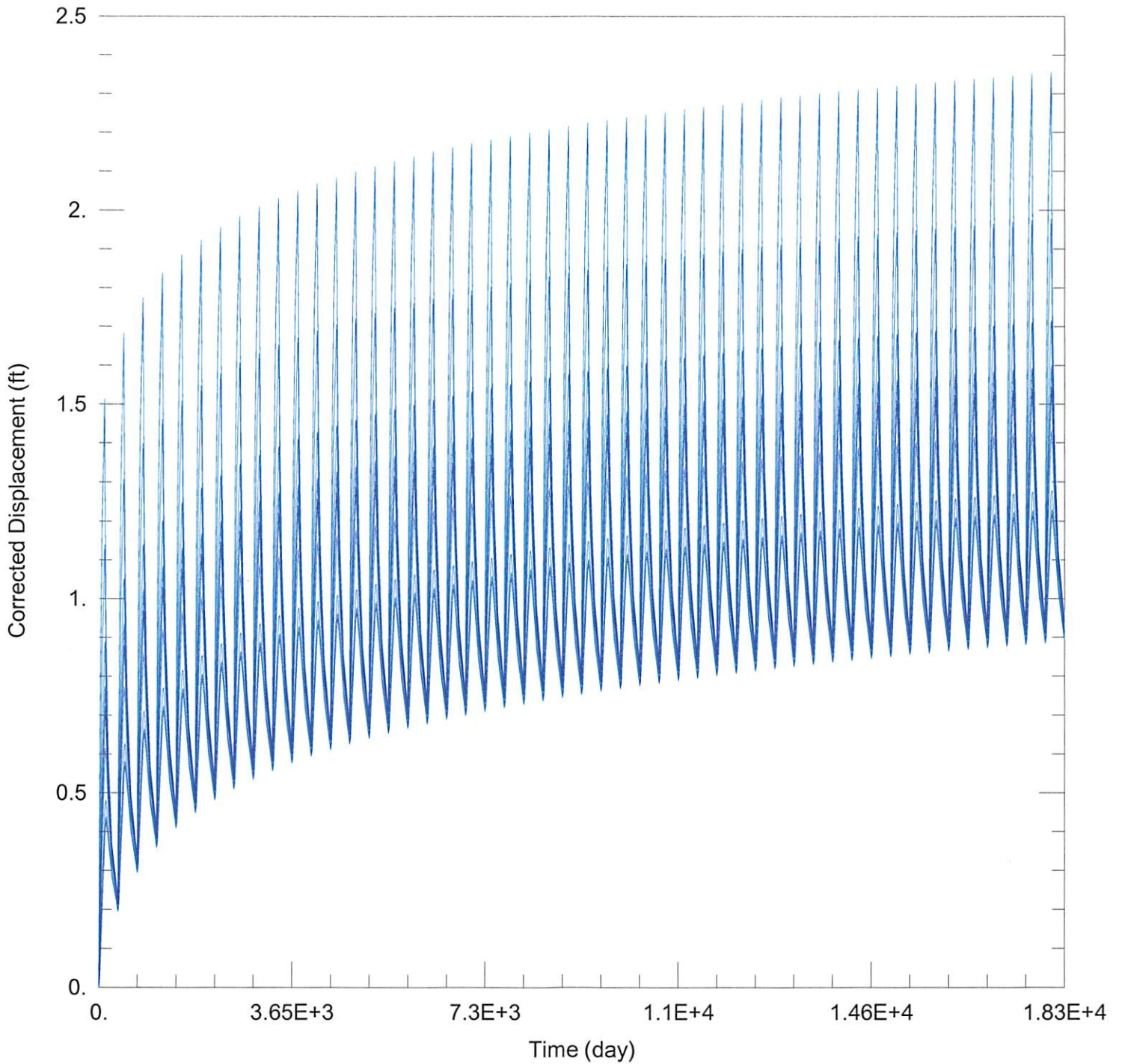
Domestic 2:                    Drawdown from current location = 1.53 ft  
                                     Drawdown from proposed location = 2.07 ft  
                                     Net drawdown = **0.5 ft**

Domestic 3:                    Drawdown from current location = 1.53 ft  
                                     Drawdown from proposed location = 1.80 ft  
                                     Net drawdown = **0.3 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\14285\14285 Current.aqt  
 Date: 05/17/23 Time: 16:13:13

PROJECT INFORMATION

Company: GMD 3  
 Project: 14285  
 Location: Kearny County

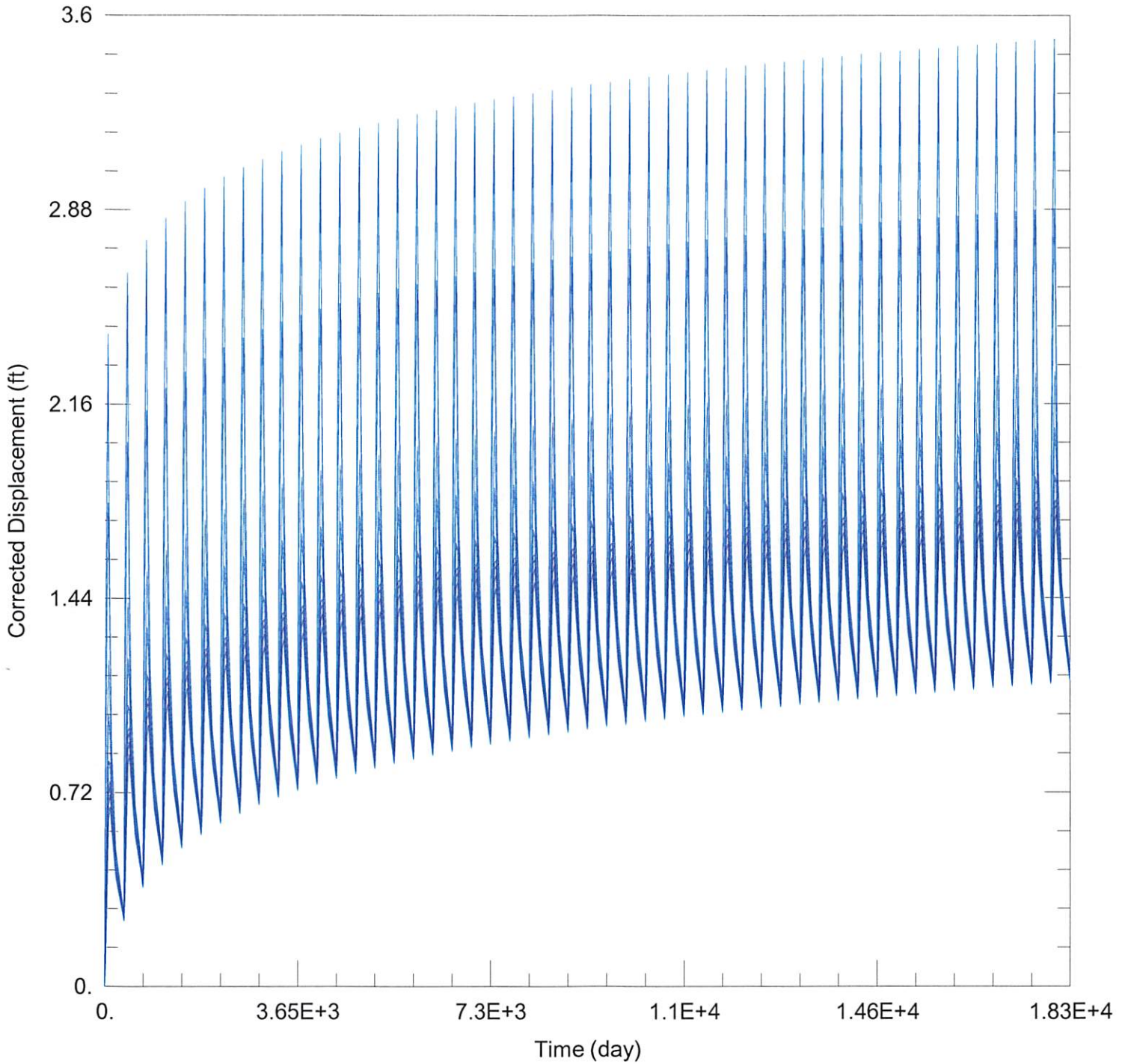
WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
14285 ID3	-131274	356652

Well Name	X (ft)	Y (ft)
□	-131274	356652



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023\_moves\14285\14285 Proposed.aqt  
 Date: 05/17/23 Time: 16:13:07

PROJECT INFORMATION

Company: GMD 3  
 Project: 14285  
 Location: Kearny County

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
14285 ID3	-131992	357010

Well Name	X (ft)	Y (ft)
□	-131992	357010