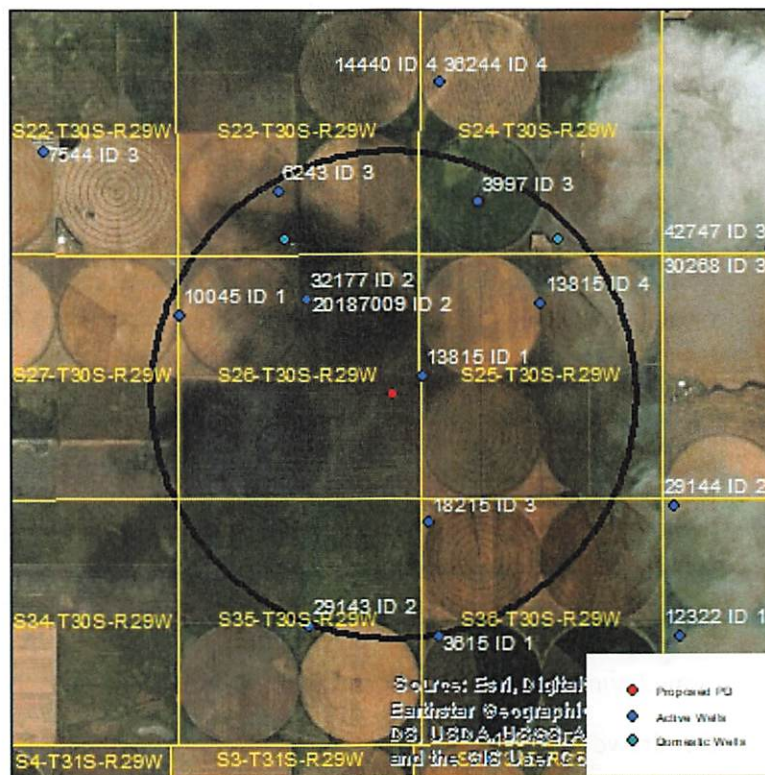


## Evaluation of proposed move for Water Right No. 13815 ID1

Proposed: Move water right no. 13815 ID1 to a new well location, a distance of 755 ft to the southwest.



Wells within 1 mile: 6243, 3997, 10045, 32177, 13815 ID4, 18215, a domestic well in section 23-30-29, and a domestic well in section 24-30-29.

The saturated thickness at the proposed well location is estimated to be 221 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:

$S = 0.2487$ ,  $T = 20,594 \text{ ft}^2/\text{day}$ ,  $tp_{\text{current}} = 132 \text{ days}$  (based on average use and observed rate),  
 $Q_{\text{current}} = 618 \text{ gpm}$  (based on 2019 well inspection),  $tp_{\text{proposed}} = 72 \text{ days}$ ,  $Q_{\text{proposed}} = 1530 \text{ gpm}$

Theis drawdowns were calculated as follows:

6243: Drawdown from current location = 0.91 ft  
 Drawdown from proposed location = 1.25 ft  
 Net drawdown = **0.3 ft**

3997: Drawdown from current location = 1.05 ft  
 Drawdown from proposed location = 1.35 ft  
 Net drawdown = **0.3 ft**

10045: Drawdown from current location = 0.86 ft  
Drawdown from proposed location = 1.27 ft  
Net drawdown = **0.4 ft**

32177: Drawdown from current location = 1.26 ft  
Drawdown from proposed location = 2.00 ft  
Net drawdown = **0.7 ft**

13815 ID4: Drawdown from current location = 1.25 ft  
Drawdown from proposed location = 1.55 ft  
Net drawdown = **0.3 ft**

18215: Drawdown from current location = 1.20 ft  
Drawdown from proposed location = 1.92 ft  
Net drawdown = **0.7 ft**

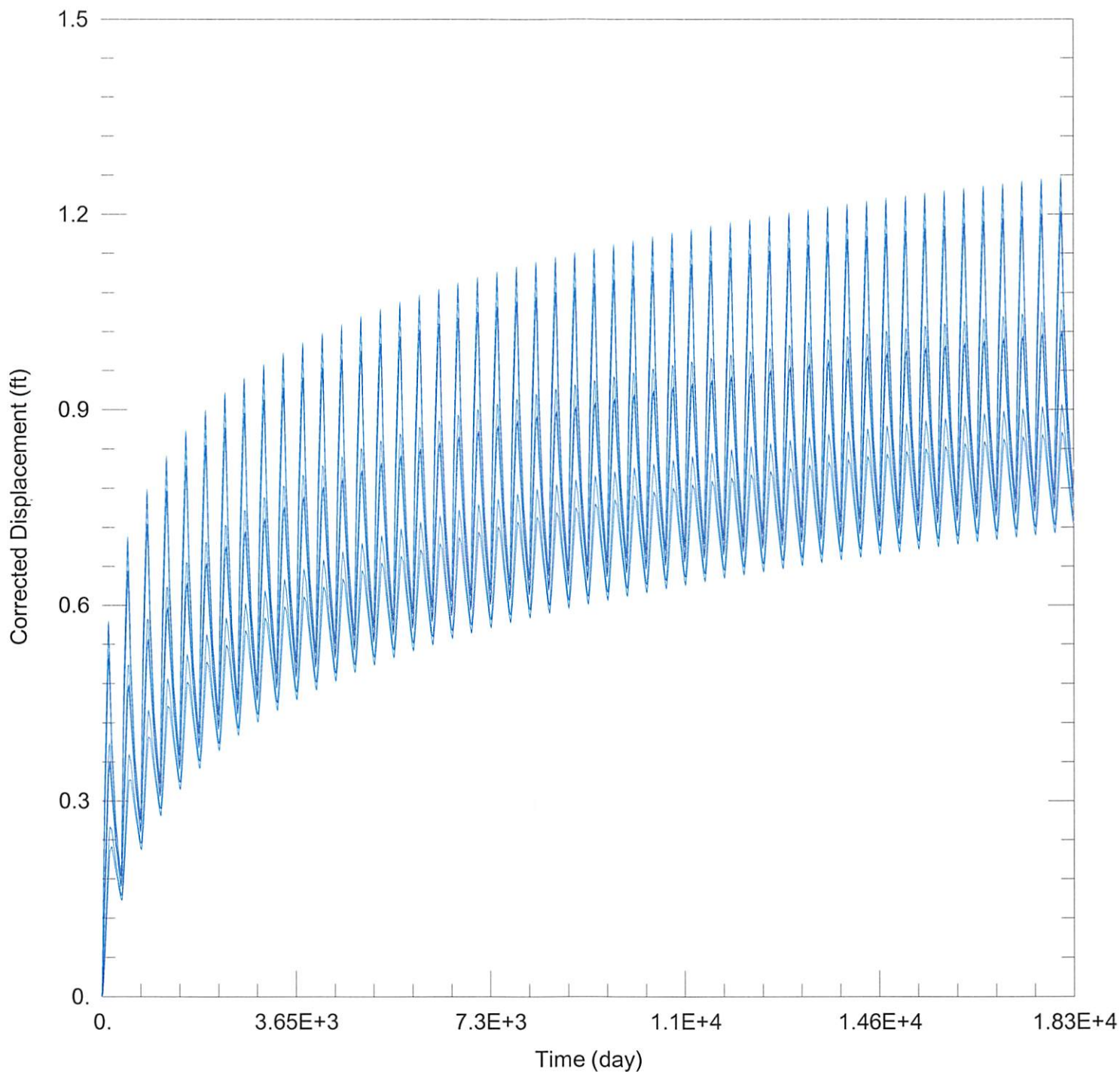
Domestic 23-30-29: Drawdown from current location = 1.02 ft  
Drawdown from proposed location = 1.47 ft  
Net drawdown = **0.5 ft**

Domestic 24-30-29: Drawdown from current location = 1.02 ft  
Drawdown from proposed location = 1.27 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\2022\_moves\13815\13815 Current.aqt

Date: 12/21/22

Time: 16:40:25

### PROJECT INFORMATION

Company: GMD 3

Project: 13815

Location: Meade County

### WELL DATA

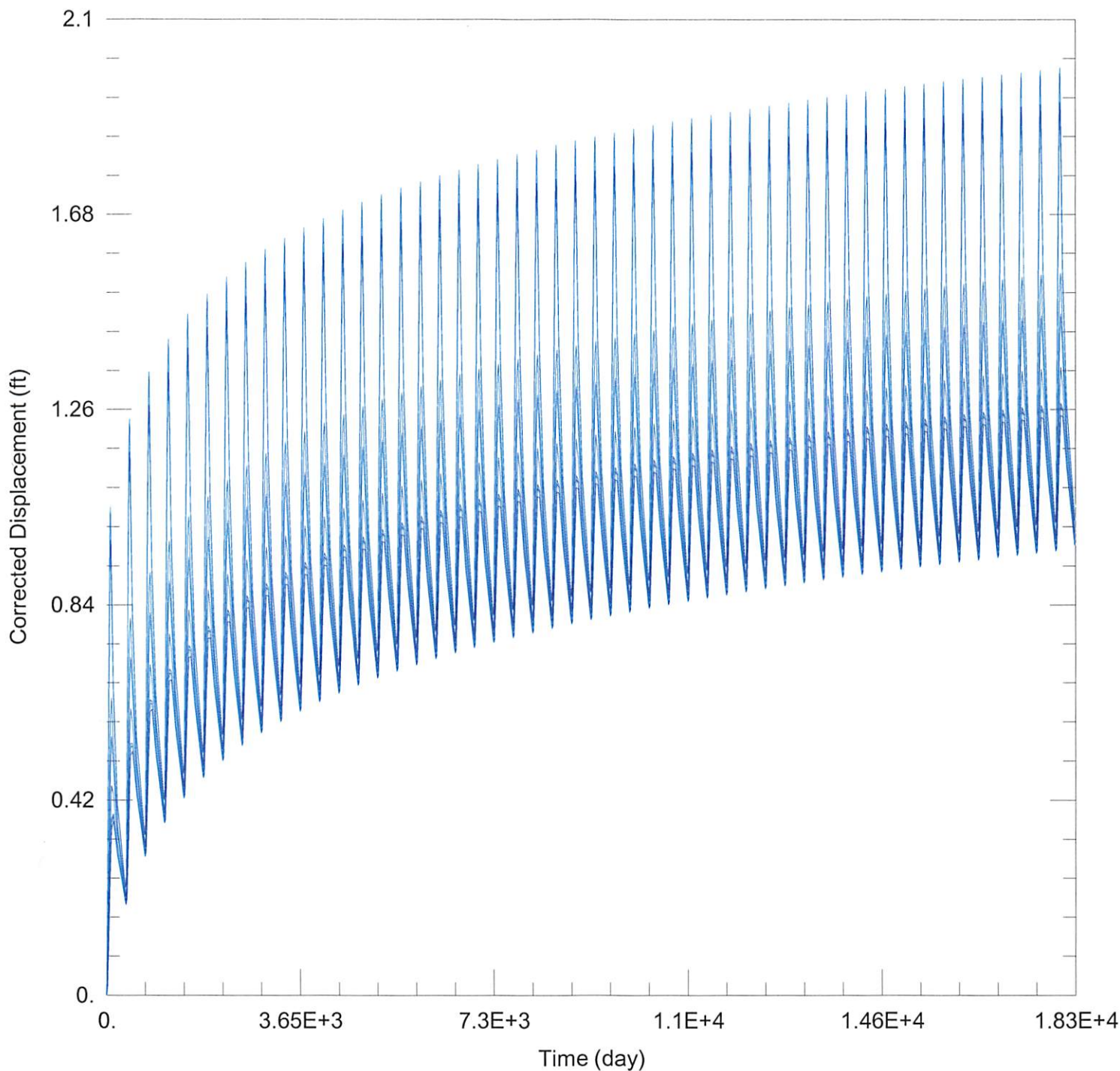
#### Pumping Wells

Well Name	X (ft)	Y (ft)
13815 ID1	100855	194697

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	100855	194697





### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022\_moves\13815\13815 Proposed.aqt

Date: 12/21/22

Time: 16:40:19

### PROJECT INFORMATION

Company: GMD 3

Project: 13815

Location: Meade County

### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
13815 ID1	100222	194285

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	100222	194285