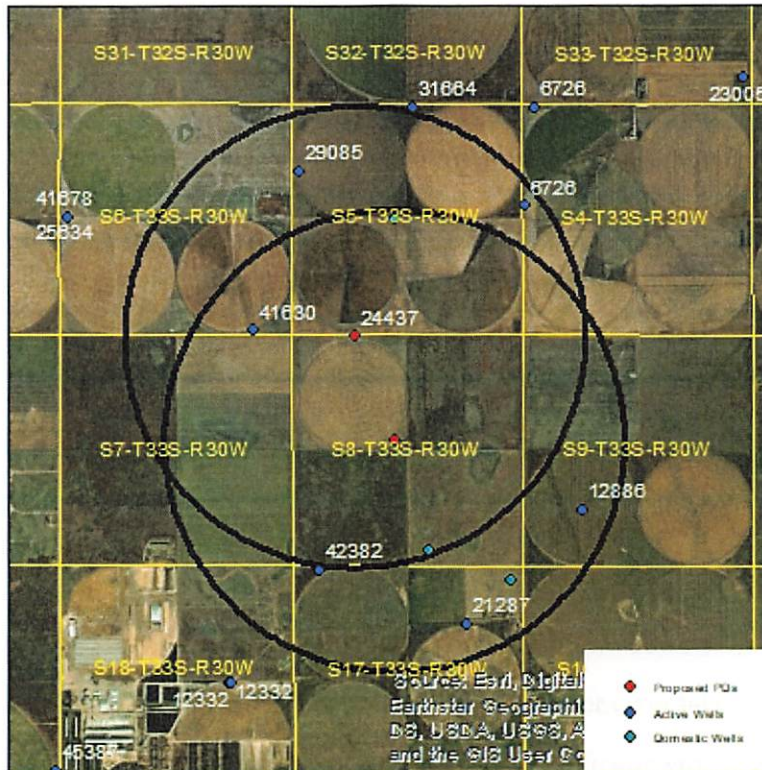


## Evaluation of proposed move for Water Right Nos. 24437 and 41630

Proposed: Move water right no. 24437 to a new well location, a distance of 2,542 ft to the southeast.

Move water right no. 41630 to the well location currently authorized under water right no. 24437.



Wells within 1 mile: 29085, 6726, 42382, 21287, 12886, a domestic well in section 5-33-30, a domestic well in section 8-33-30, and a domestic well in section 17-33-30.

The saturated thickness at the proposed well location is estimated to be 278 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:

$S = 0.2279$ ,  $T = 19,994 \text{ ft}^2/\text{day}$ ,

24437:  $tp_{\text{current}} = 102 \text{ days}$ ,  $Q_{\text{current}} = 566 \text{ gpm}$ ,  $tp_{\text{proposed}} = 40 \text{ days}$ ,  $Q_{\text{proposed}} = 1800 \text{ gpm}$

41630:  $tp_{\text{current}} = 152 \text{ days}$ ,  $Q_{\text{current}} = 588 \text{ gpm}$ ,  $tp_{\text{proposed}} = 243 \text{ days}$ ,  $Q_{\text{proposed}} = 566 \text{ gpm}$

Theis drawdowns were calculated as follows:

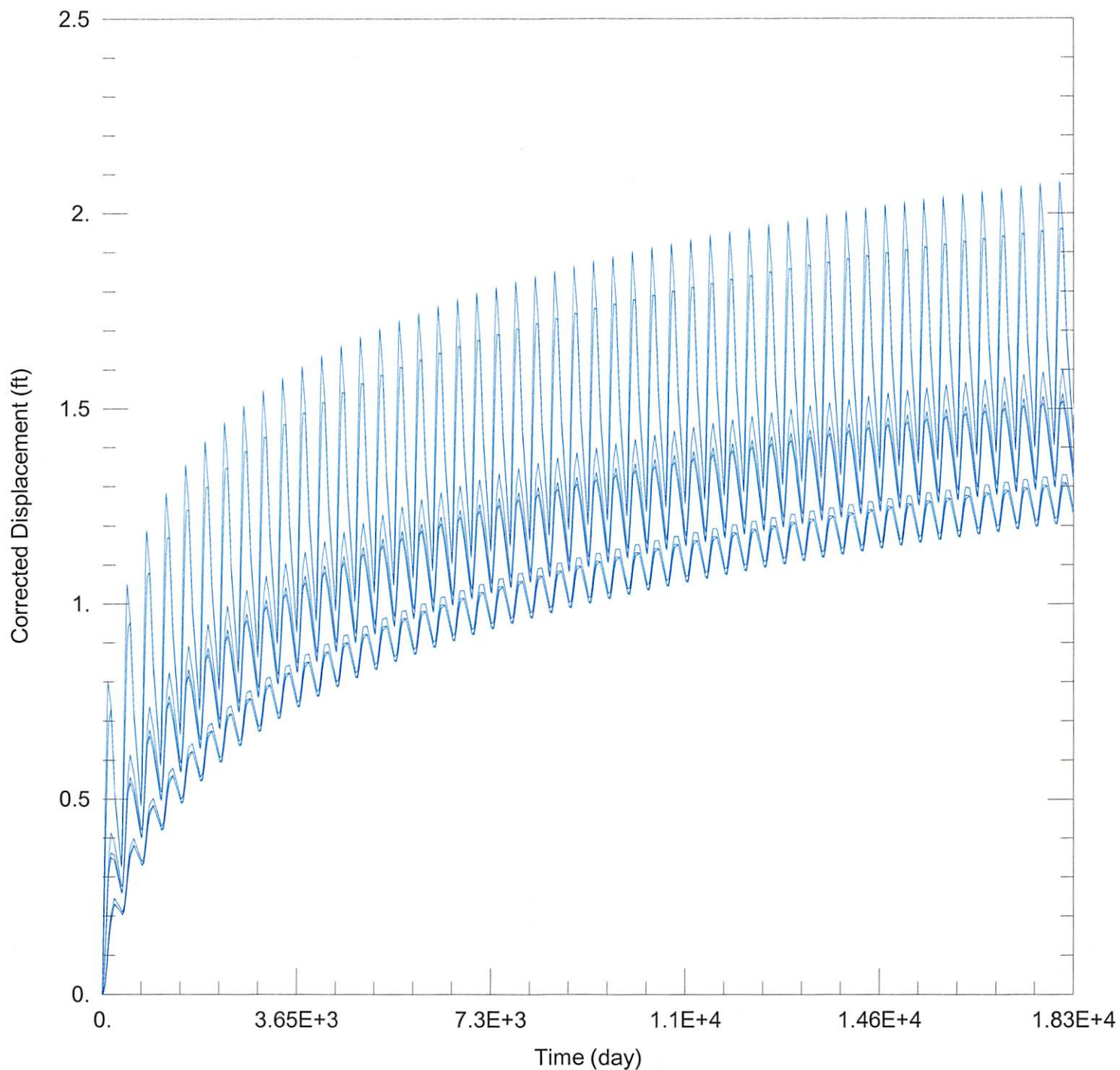
29085: Drawdown from current location = 1.96 ft  
Drawdown from proposed location = 2.35 ft  
Net drawdown = 0.4 ft

6726:	Drawdown from current location = 1.52 ft Drawdown from proposed location = 2.21 ft Net drawdown = <b>0.7 ft</b>
42382:	Drawdown from current location = 1.60 ft Drawdown from proposed location = 2.52 ft Net drawdown = <b>0.9 ft</b>
21287:	Drawdown from current location = 1.31 ft Drawdown from proposed location = 2.14 ft Net drawdown = <b>0.8 ft</b>
12886:	Drawdown from current location = 1.31 ft Drawdown from proposed location = 2.16ft Net drawdown = <b>0.8 ft</b>
Domestic 5-33-30:	Drawdown from current location = 2.08 ft Drawdown from proposed location = 2.69 ft Net drawdown = <b>0.6 ft</b>
Domestic 8-33-30:	Drawdown from current location = 1.54 ft Drawdown from proposed location = 2.88 ft Net drawdown = <b>1.3 ft</b>
Domestic 17-33-30:	Drawdown from current location = 1.33 ft Drawdown from proposed location = 2.25 ft Net drawdown = <b>0.9 ft</b>

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\24437\_41630\24437\_41630 Current.aqt

Date: 05/01/23

Time: 15:20:10

### PROJECT INFORMATION

Company: GMD 3

Project: 24437 & 41630

Location: Meade County

### WELL DATA

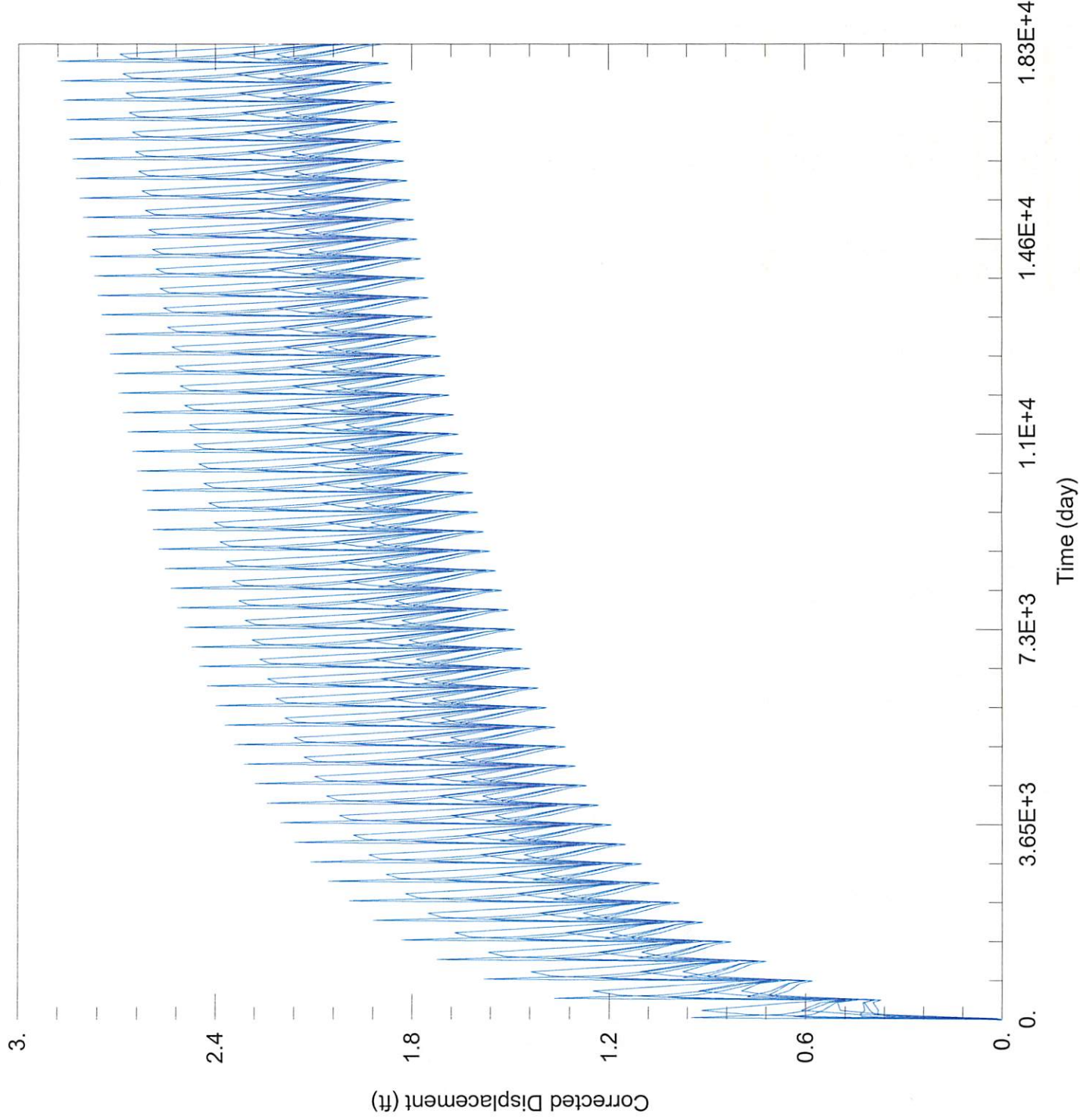
#### Pumping Wells

Well Name	X (ft)	Y (ft)
<u>24437</u>	<u>54583</u>	<u>118004</u>

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	<u>54583</u>	<u>118004</u>





### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023\_moves\24437\_41630\24437\_41630 Proposed.aqt

Date: 05/01/23 Time: 15:20:04

### PROJECT INFORMATION

Company: GMD 3

Project: 24437 & 41630

Location: Meade County

### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
24437	55488	115628

#### Observation Wells

Well Name	X (ft)	Y (ft)
	55488	115628