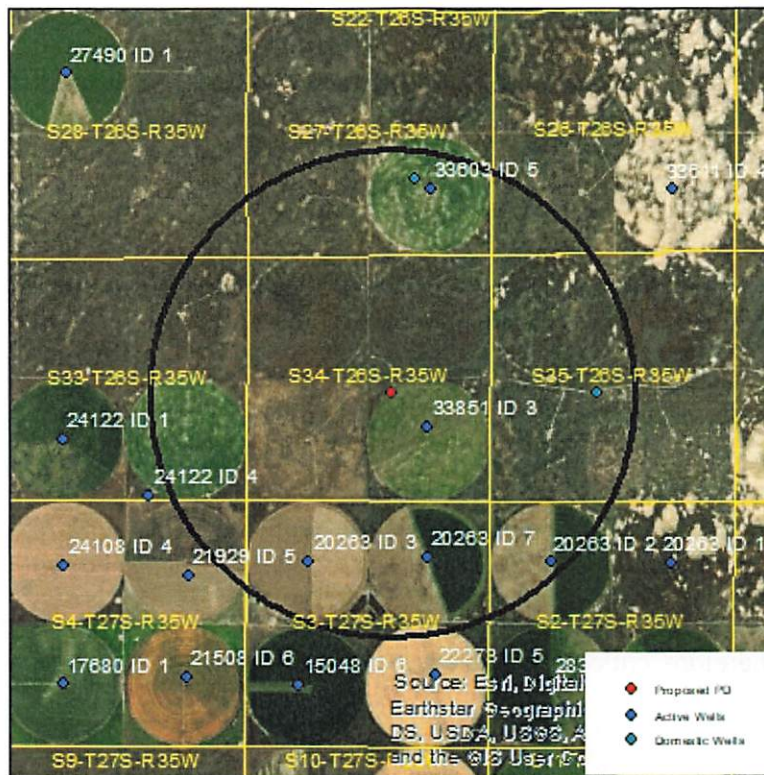


## Evaluation of proposed move for Water Right No. 33851

Proposed: Move water right no. 33851 to a new well location, a distance of 1,082 ft to the northwest.



Wells within 1 mile: 33603, 20263 ID2, 20263 ID3, 20263 ID7, a domestic well in section 27-26-35, and a domestic well in section 35-26-35.

The saturated thickness at the proposed well location is estimated to be 172 ft, based upon the GMD3 model. For saturated thickness between 150 ft and 200 ft, the drawdown allowance is 3.5 ft.

**50 year Theis Analysis:** The following values were used to run the analysis:

$S = 0.1903$ ,  $T = 10,129 \text{ ft}^2/\text{day}$ ,  $tp_{\text{current}} = 133 \text{ days}$  (based on average use and observed rate),  
 $Q_{\text{current}} = 189 \text{ gpm}$  (based on 2019 field inspection),  $tp_{\text{proposed}} = 68 \text{ days}$ ,  $Q_{\text{proposed}} = 905 \text{ gpm}$

Theis drawdowns were calculated as follows:

33603:	Drawdown from current location = 0.49 ft
	Drawdown from proposed location = 1.32 ft
	Net drawdown = <b>0.8 ft</b>
20263 ID2:	Drawdown from current location = 0.58 ft
	Drawdown from proposed location = 1.23 ft
	Net drawdown = <b>0.7 ft</b>

20263 ID3: Drawdown from current location = 0.58 ft  
Drawdown from proposed location = 1.41 ft  
Net drawdown = **0.8 ft**

20263 ID7: Drawdown from current location = 0.71 ft  
Drawdown from proposed location = 1.55 ft  
Net drawdown = **0.8 ft**

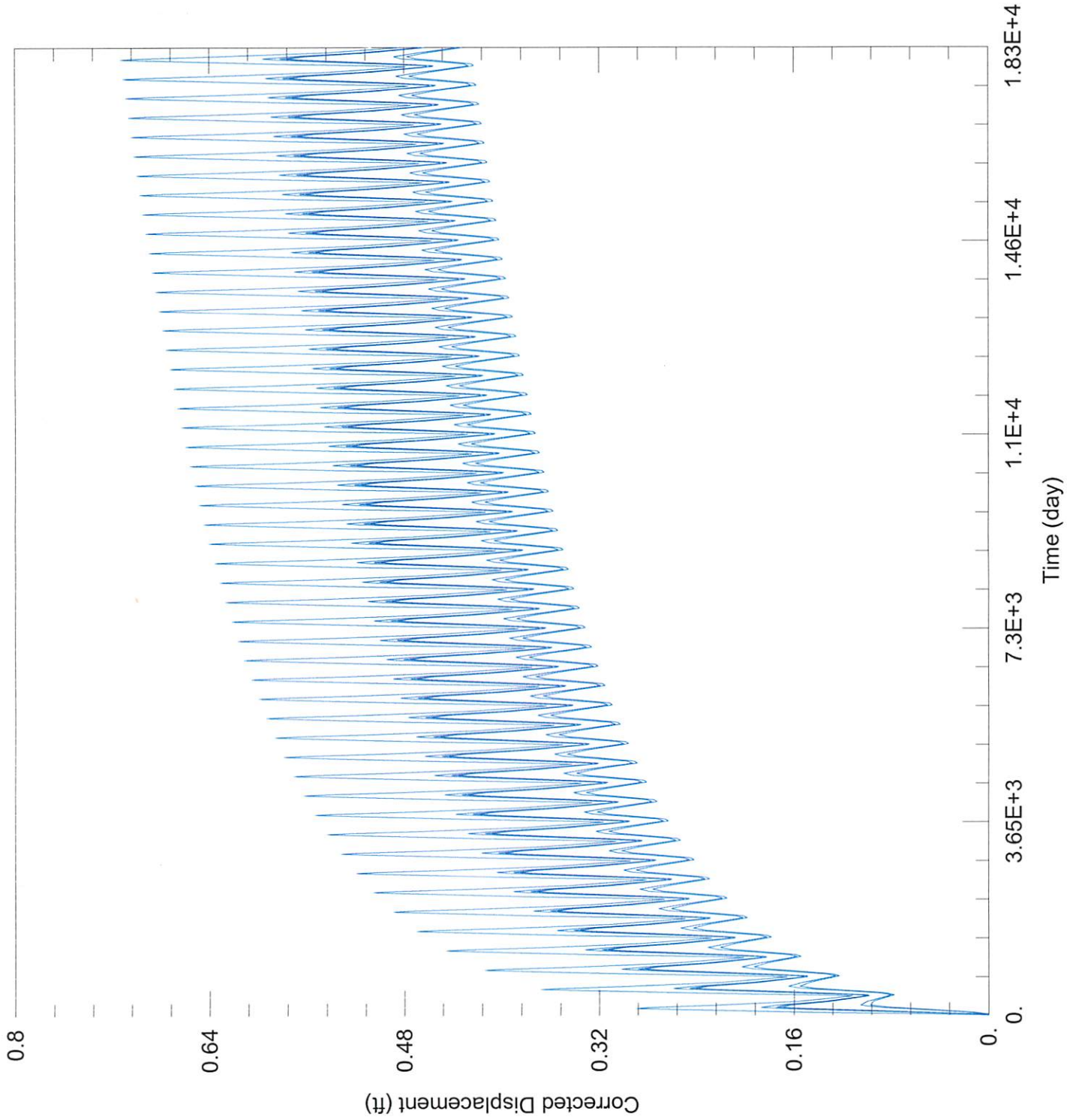
Domestic 27-26-35: Drawdown from current location = 0.48 ft  
Drawdown from proposed location = 1.30 ft  
Net drawdown = **0.8 ft**

Domestic 35-26-35: Drawdown from current location = 0.60 ft  
Drawdown from proposed location = 1.34 ft  
Net drawdown = **0.7 ft**

Net drawdown does not exceed the drawdown allowance of 3.5 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\33851\33851 Current.aqt  
 Date: 12/01/22 Time: 17:02:54

PROJECT INFORMATION

Company: GMD 3  
 Project: 33851  
 Location: Kearny County

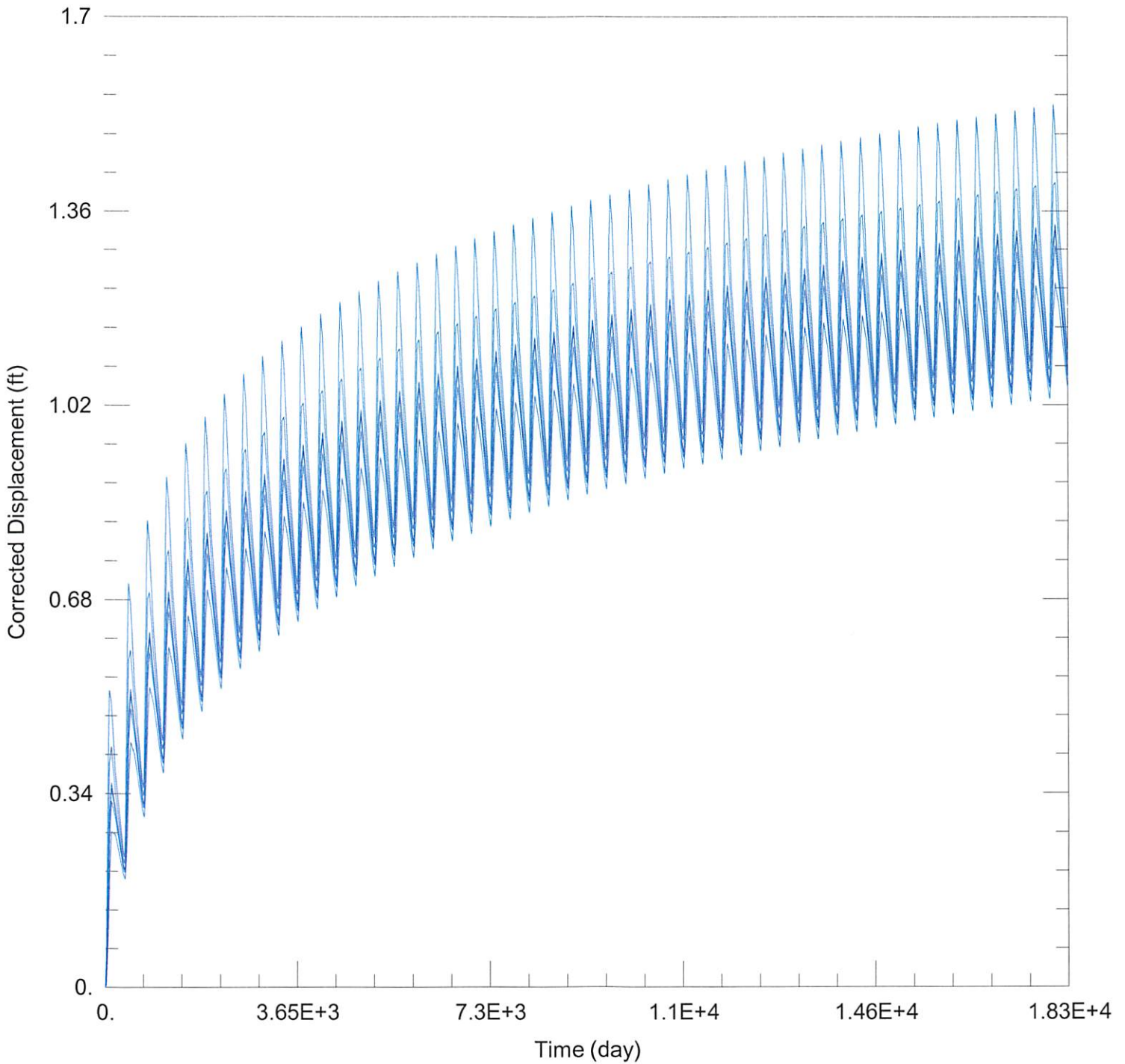
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
33851	-95876	315391

Observation Wells

Well Name	X (ft)	Y (ft)
	-95876	315391



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022\_moves\33851\33851 Proposed.aqt  
 Date: 12/01/22 Time: 17:02:48

PROJECT INFORMATION

Company: GMD 3  
 Project: 33851  
 Location: Kearny County

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
33851	-96661	316136

Well Name	X (ft)	Y (ft)
□	-96661	316136