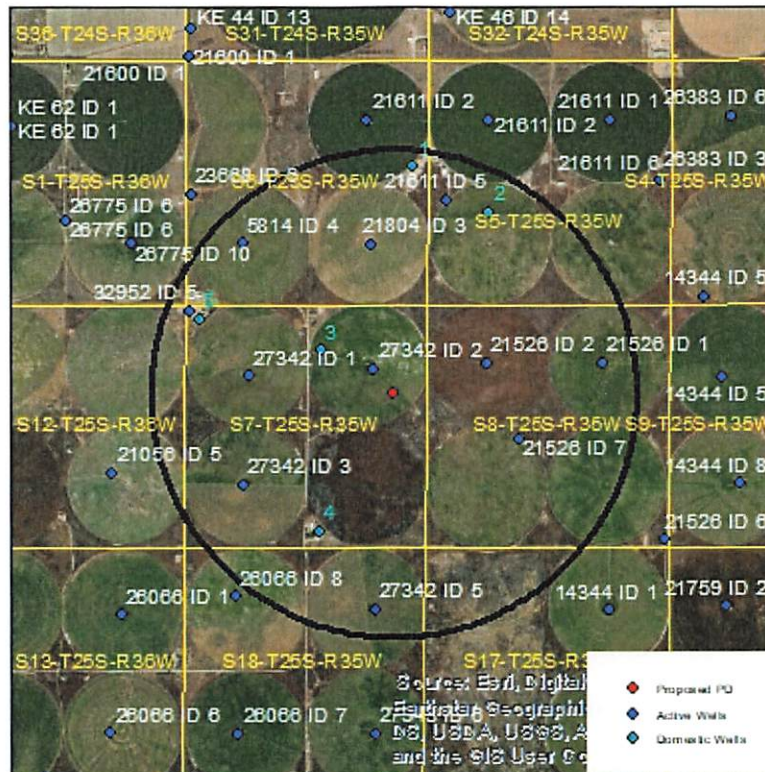


Evaluation of proposed move for Water Right No. 27342 D1

Proposed: Move water right no. 27342 D1 ID2 to a new well location, a distance of 674 ft to the southeast.



Wells within 1 mile: 5814, 21804, 21511, 32952, 27342 ID1, 27342 ID3, 27342 ID5, 21526 ID1, 21526 ID2, 21526 ID7, and five domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 255 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:

$S = 0.1468$, $T = 28,486 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 138 \text{ days}$ (based on average use and observed rate),
 $Q_{\text{current}} = 391 \text{ gpm}$ (based on 2021 water use report), $tp_{\text{proposed}} = 74 \text{ days}$, $Q_{\text{proposed}} = 800 \text{ gpm}$

Theis drawdowns were calculated as follows:

5814: Drawdown from current location = 0.65 ft
Drawdown from proposed location = 0.72 ft
Net drawdown = **0.1 ft**

21804: Drawdown from current location = 0.79 ft
Drawdown from proposed location = 0.93 ft
Net drawdown = **0.1 ft**

21511: Drawdown from current location = 0.64 ft
Drawdown from proposed location = 0.76 ft
Net drawdown = **0.1 ft**

32952: Drawdown from current location = 0.62 ft
Drawdown from proposed location = 0.70 ft
Net drawdown = **0.1 ft**

27342 ID1: Drawdown from current location = 0.79 ft
Drawdown from proposed location = 0.95 ft
Net drawdown = **0.2 ft**

27342 ID3: Drawdown from current location = 0.66 ft
Drawdown from proposed location = 0.83 ft
Net drawdown = **0.2 ft**

27342 ID5: Drawdown from current location = 0.55 ft
Drawdown from proposed location = 0.71 ft
Net drawdown = **0.2 ft**

21526 ID1: Drawdown from current location = 0.57 ft
Drawdown from proposed location = 0.72 ft
Net drawdown = **0.2 ft**

21526 ID2: Drawdown from current location = 0.83 ft
Drawdown from proposed location = 1.25 ft
Net drawdown = **0.4 ft**

21526 ID7: Drawdown from current location = 0.69 ft
Drawdown from proposed location = 1.01 ft
Net drawdown = **0.3 ft**

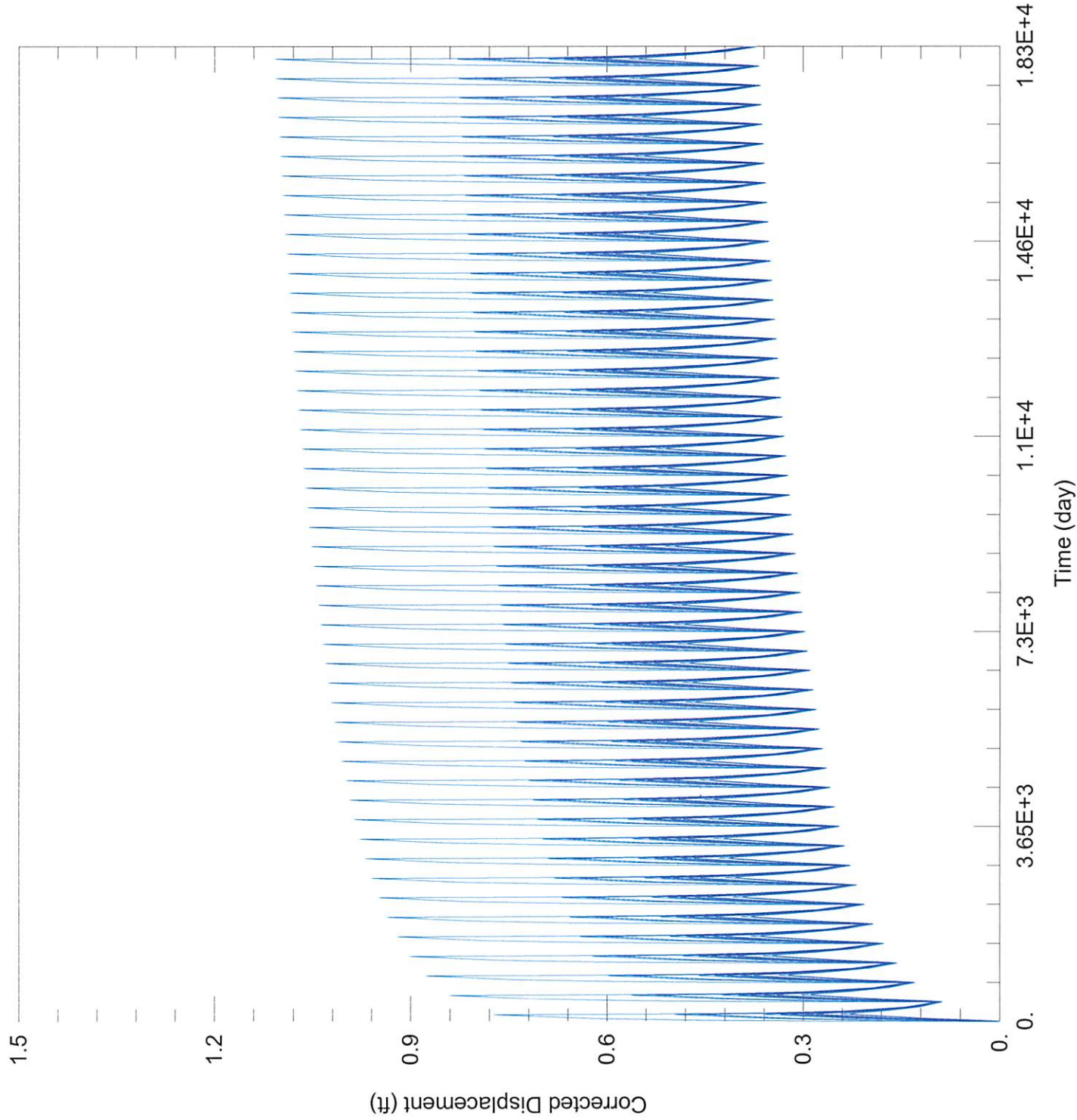
Domestic 1: Drawdown from current location = 0.61 ft
Drawdown from proposed location = 0.69 ft
Net drawdown = **0.1 ft**

Domestic 2:	Drawdown from current location = 0.62 ft Drawdown from proposed location = 0.75 ft Net drawdown = 0.1 ft
Domestic 3:	Drawdown from current location = 1.11 ft Drawdown from proposed location = 1.36 ft Net drawdown = 0.3 ft
Domestic 4:	Drawdown from current location = 0.66 ft Drawdown from proposed location = 0.89 ft Net drawdown = 0.2 ft
Domestic 5:	Drawdown from current location = 0.64 ft Drawdown from proposed location = 0.73 ft Net drawdown = 0.1 ft

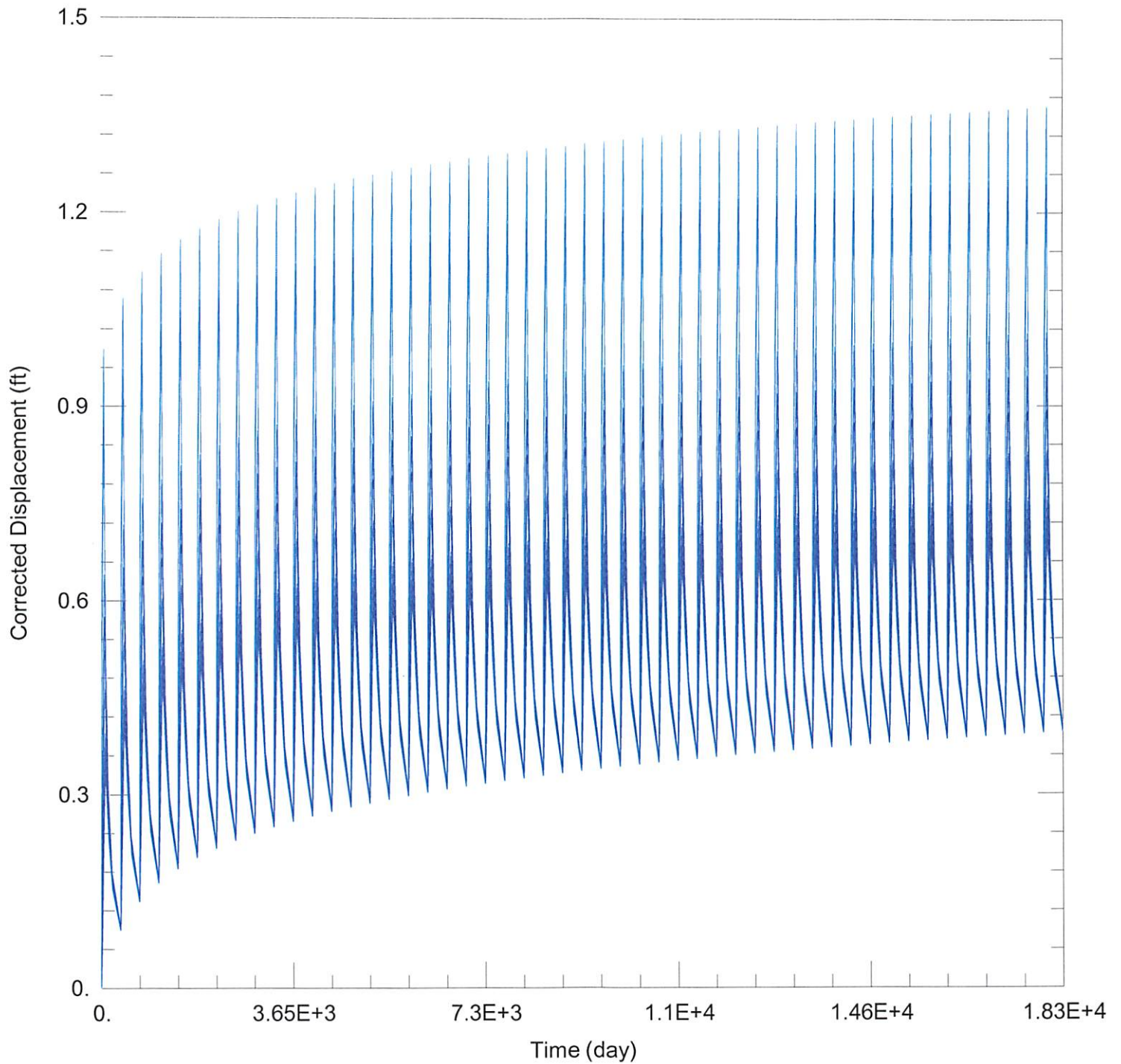
Net drawdown does not exceed the drawdown allowance of 4.0 ft for any well within 1 mile of the proposed location. Therefore, critical well analysis is not necessary.

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.



<u>WELL TEST ANALYSIS</u>			
Data Set: C:\Users\trevora\Documents\2022_moves\2734D1\27342 Current.aqt			
Date: 11/02/22		Time: 11:42:31	
<u>PROJECT INFORMATION</u>			
Company: GMD 3			
Project: 27342 D1			
Location: Kearny County			
<u>WELL DATA</u>			
<u>Pumping Wells</u>		<u>Observation Wells</u>	
Well Name	X (ft)	Well Name	X (ft)
27342 ID2	-115239		-115239
		Y (ft)	Y (ft)
			372435



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\2734D1\27342 Proposed.aqt

Date: 11/02/22

Time: 11:42:24

PROJECT INFORMATION

Company: GMD 3

Project: 27342 D1

Location: Kearny County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
27342 ID2	-114809	371916

Observation Wells

Well Name	X (ft)	Y (ft)
□	-114809	371916