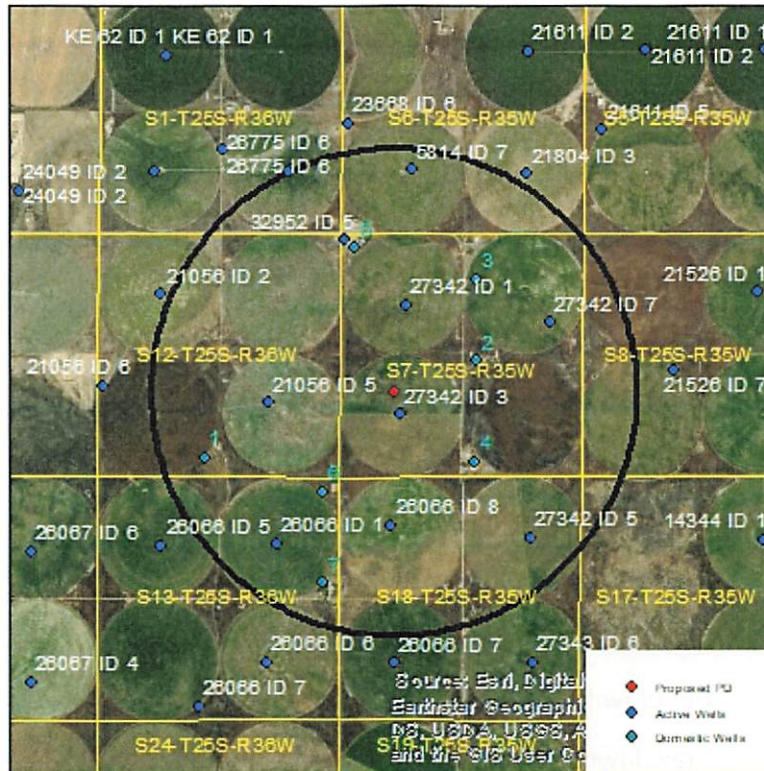


Evaluation of proposed move for Water Right No. 27342 D2

Proposed: Move water right no. 27342 D2 ID3 to a new well location, a distance of 514 ft to the northwest.



Wells within 1 mile: 27342 ID1, 27342 ID5, 27342 ID7, 5814, 21056, 32952, 26066 ID1, 26066 ID8, and seven 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:

$S = 0.1468$, $T = 28,486 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 182 \text{ days}$ (based on average use and observed rate),
 $Q_{\text{current}} = 272 \text{ gpm}$ (based on 2018 field inspection), $tp_{\text{proposed}} = 73 \text{ days}$, $Q_{\text{proposed}} = 800 \text{ gpm}$

Theis drawdowns were calculated as follows:

27342 ID1:	Drawdown from current location = 0.69 ft
	Drawdown from proposed location = 1.34 ft
	Net drawdown = 0.6 ft
27342 ID5:	Drawdown from current location = 0.55 ft
	Drawdown from proposed location = 0.75 ft
	Net drawdown = 0.2 ft

27342 ID7: Drawdown from current location = 0.56 ft
Drawdown from proposed location = 0.84 ft
Net drawdown = **0.3 ft**

5814: Drawdown from current location = 0.48 ft
Drawdown from proposed location = 0.69 ft
Net drawdown = **0.2 ft**

21056: Drawdown from current location = 0.64 ft
Drawdown from proposed location = 1.05 ft
Net drawdown = **0.4 ft**

32952: Drawdown from current location = 0.55 ft
Drawdown from proposed location = 0.88 ft
Net drawdown = **0.3 ft**

26066 ID1: Drawdown from current location = 0.56 ft
Drawdown from proposed location = 0.77 ft
Net drawdown = **0.2 ft**

26066 ID8: Drawdown from current location = 0.69 ft
Drawdown from proposed location = 1.00 ft
Net drawdown = **0.3 ft**

Domestic 1: Drawdown from current location = 0.53 ft
Drawdown from proposed location = 0.74 ft
Net drawdown = **0.2 ft**

Domestic 2: Drawdown from current location = 0.74 ft
Drawdown from proposed location = 1.32 ft
Net drawdown = **0.6 ft**

Domestic 3: Drawdown from current location = 0.59 ft
Drawdown from proposed location = 0.97 ft
Net drawdown = **0.4 ft**

Domestic 4: Drawdown from current location = 0.76 ft
Drawdown from proposed location = 1.18 ft
Net drawdown = **0.4 ft**

Domestic 5: Drawdown from current location = 0.57 ft
Drawdown from proposed location = 0.93 ft
Net drawdown = **0.4 ft**

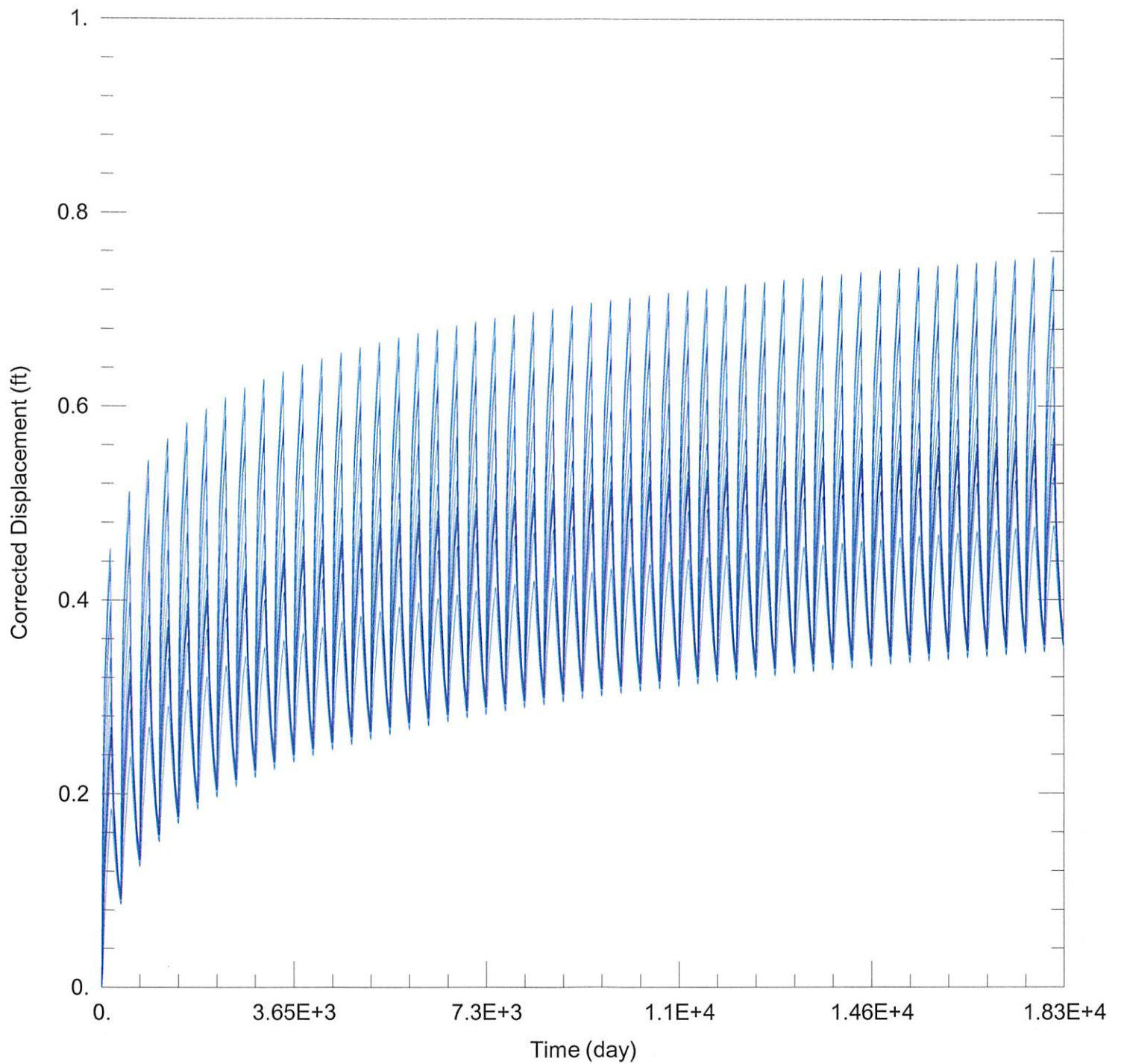
Domestic 6: Drawdown from current location = 0.69 ft
Drawdown from proposed location = 1.07 ft
Net drawdown = **0.4 ft**

Domestic 7: Drawdown from current location = 0.55 ft
Drawdown from proposed location = 0.74 ft
Net drawdown = **0.2 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\27342_D2\27342 Current.aqt

Date: 01/06/23

Time: 16:57:26

PROJECT INFORMATION

Company: GMD 3

Project: 27342 D2

Location: Kearny County

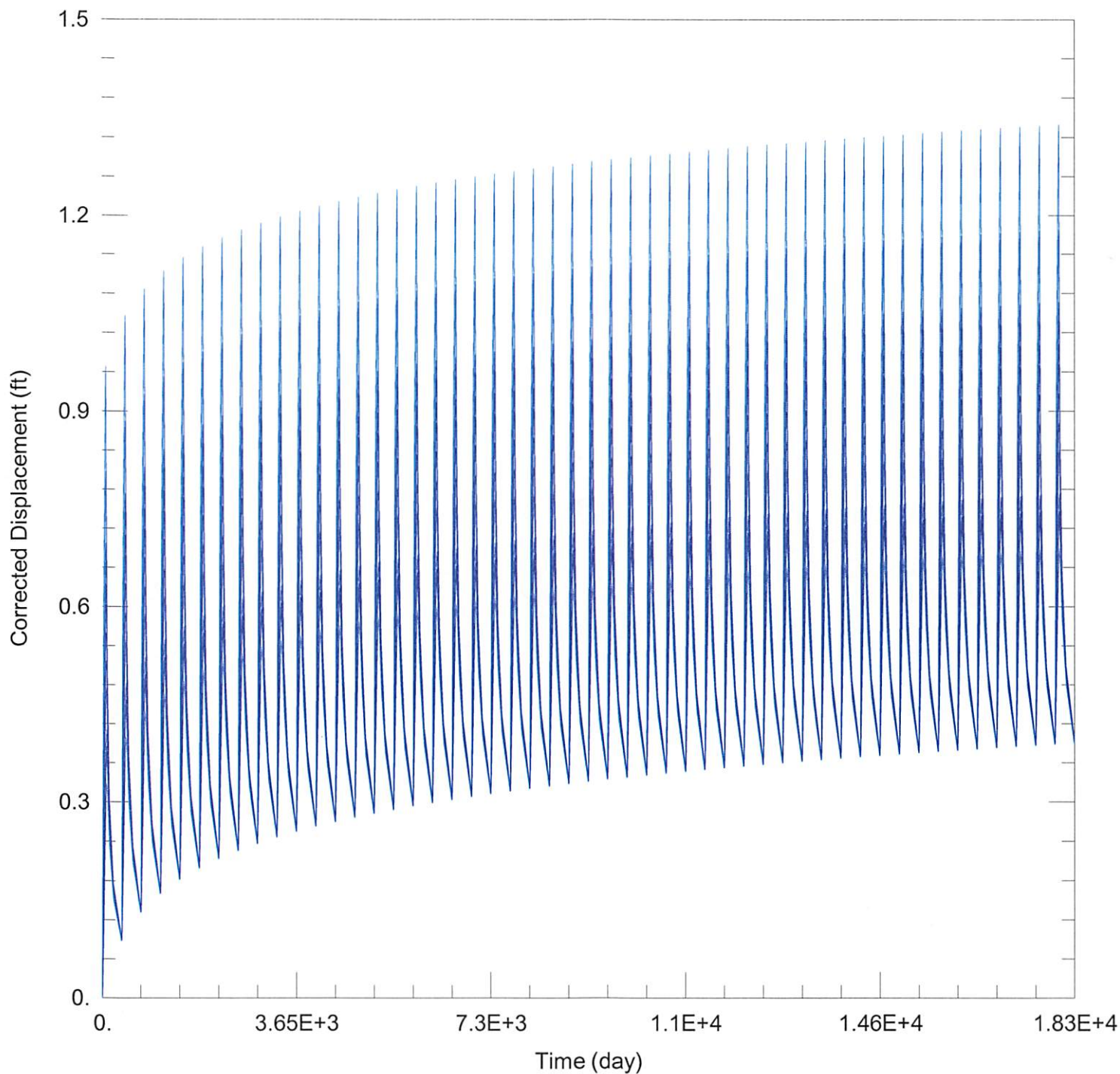
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
27342 ID3	-118078	369916

Observation Wells

Well Name	X (ft)	Y (ft)
27342 ID1	-118078	369916



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\27342_D2\27342 Proposed.aqt

Date: 01/06/23

Time: 16:57:20

PROJECT INFORMATION

Company: GMD 3

Project: 27342 D2

Location: Kearny County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
27342 ID3	-118203	370415

Observation Wells

Well Name	X (ft)	Y (ft)
□	-118203	370415