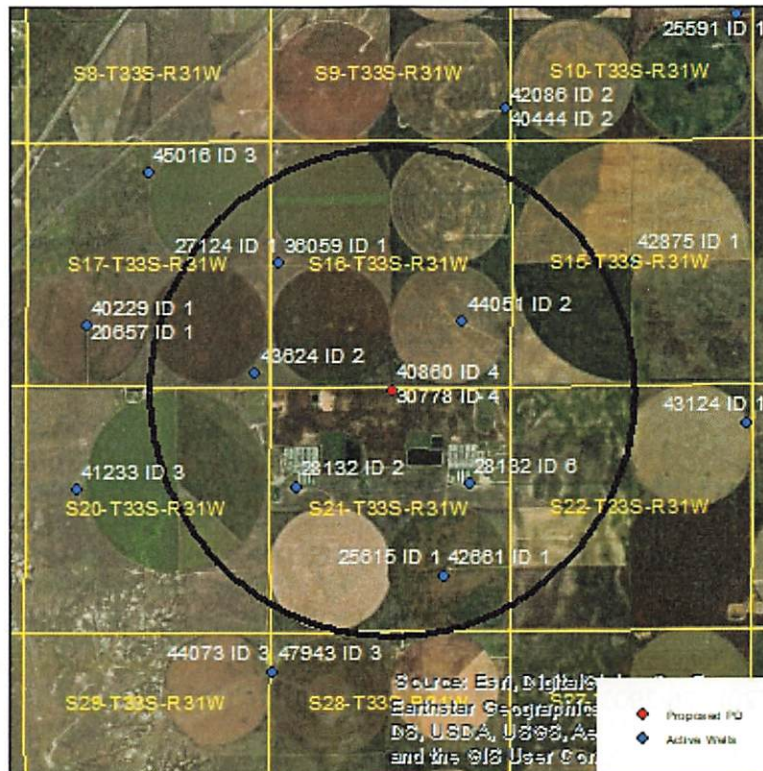


Evaluation of proposed move for Water Right No. 28132

Proposed: Move water right nos. 28132 ID2 and 28132 ID6 to the well currently authorized by water right nos. 30778 & 40860.



Wells within 1 mile: 43624, 27124 & 36059, 44051, and 25615 & 42661.

The saturated thickness at the proposed well location is estimated to be 295 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:

$S = 0.1911$, $T = 8668 \text{ ft}^2/\text{day}$,

28132 ID2: $tp_{\text{current}} = 4 \text{ days}$, $Q_{\text{current}} = 100 \text{ gpm}$, $tp_{\text{proposed}} = 0 \text{ days}$, $Q_{\text{proposed}} = 0 \text{ gpm}$

28132 ID6: $tp_{\text{current}} = 6 \text{ days}$, $Q_{\text{current}} = 100 \text{ gpm}$, $tp_{\text{proposed}} = 0 \text{ days}$, $Q_{\text{proposed}} = 0 \text{ gpm}$

30778 & 40860: $tp_{\text{current}} = 219 \text{ days}$, $Q_{\text{current}} = 119 \text{ gpm}$, $tp_{\text{proposed}} = 113 \text{ days}$, $Q_{\text{proposed}} = 630 \text{ gpm}$

Theis drawdowns were calculated as follows:

43624:

- Drawdown from current location = 0.76 ft
- Drawdown from proposed location = 2.19 ft
- Net drawdown = 1.4 ft

27124 & 36059: Drawdown from current location = 0.68 ft
Drawdown from proposed location = 1.91 ft
Net drawdown = **1.2 ft**

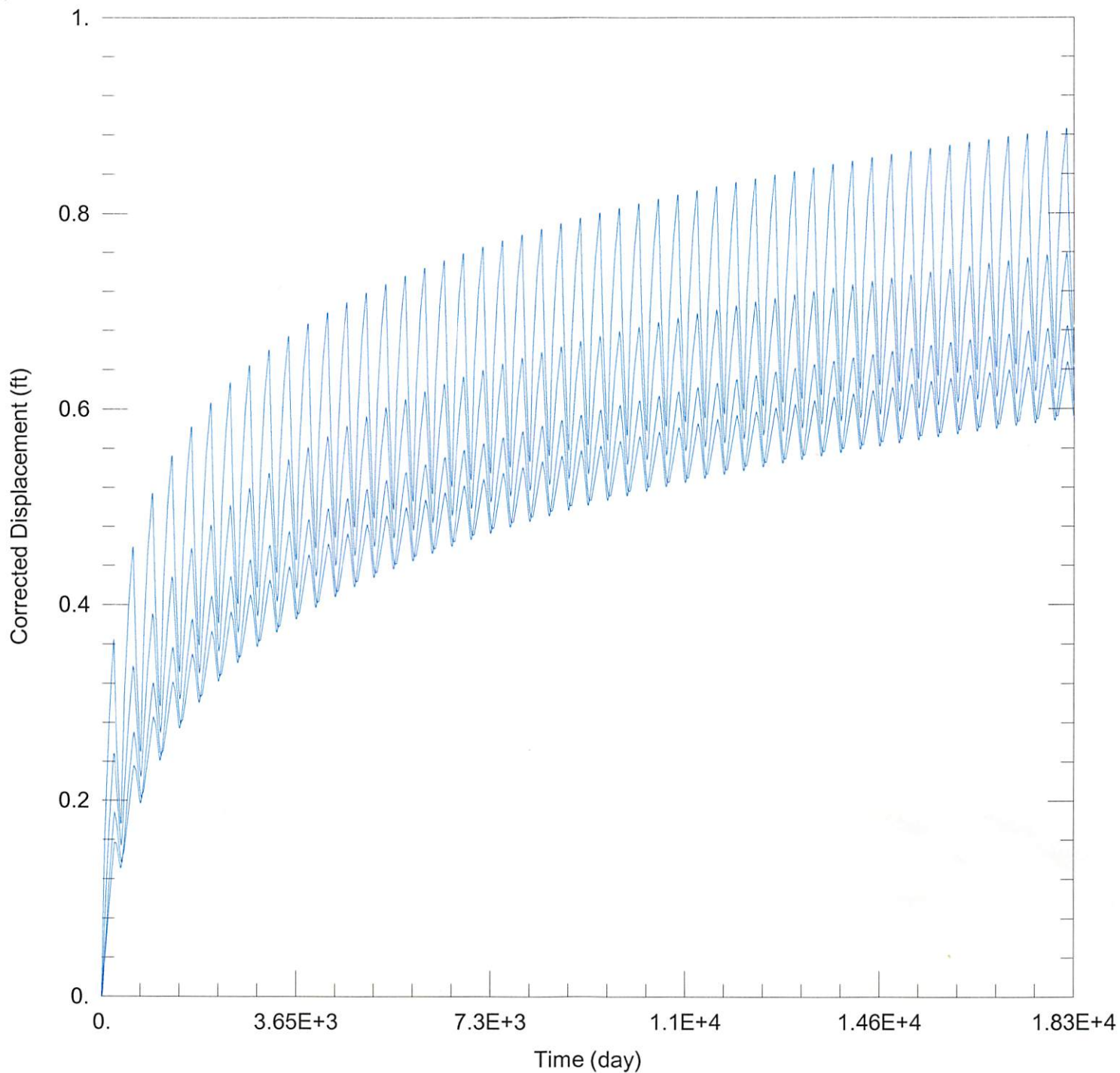
44051: Drawdown from current location = 0.89 ft
Drawdown from proposed location = 2.73 ft
Net drawdown = **1.8 ft**

25615 & 42661: Drawdown from current location = 0.65 ft
Drawdown from proposed location = 1.76 ft
Net drawdown = **1.1 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.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\28132\28132 Current.aqt

Date: 04/06/23

Time: 15:34:22

PROJECT INFORMATION

Company: GMD 3

Project: 28132

Location: Seward County

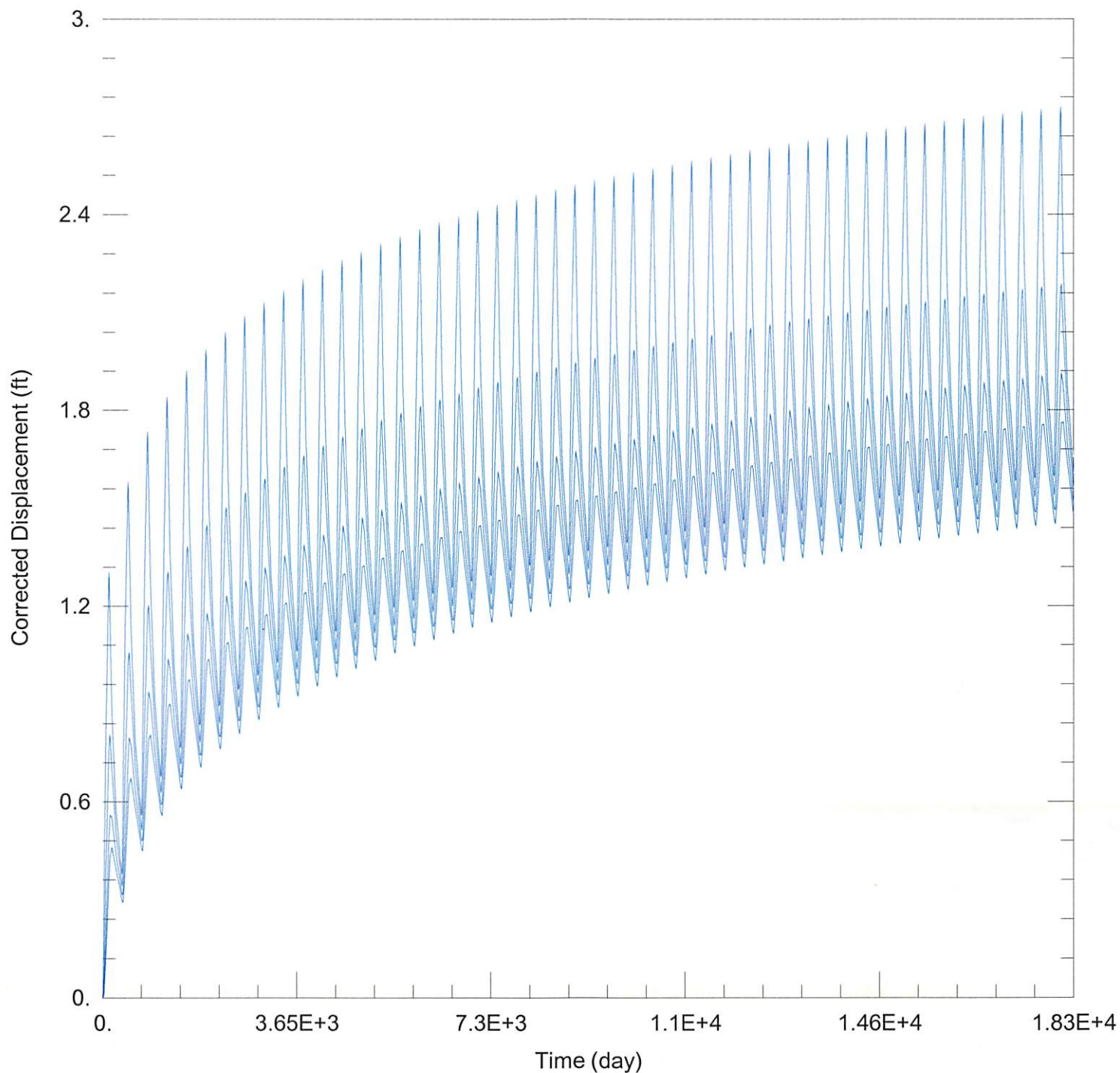
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
<u>30778 & 40860</u>	<u>29356</u>	<u>107228</u>

Observation Wells

Well Name	X (ft)	Y (ft)
<u>□</u>	<u>29356</u>	<u>107228</u>



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\28132\28132 Proposed.aqt

Date: 04/06/23

Time: 15:34:16

PROJECT INFORMATION

Company: GMD 3

Project: 28132

Location: Seward County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
30778 & 40860	29356	107228

Observation Wells

Well Name	X (ft)	Y (ft)
□	29356	107228