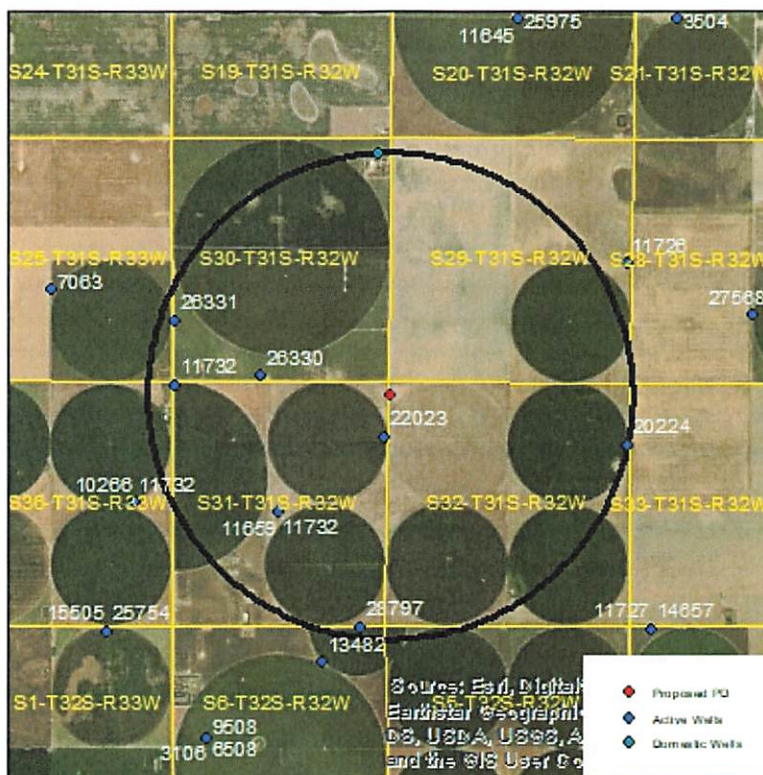


Evaluation of proposed move for Water Right No. 22023

Proposed: Move water right no. 22023 to a new well location, a distance of 915 ft to the northeast.



Wells within 1 mile: 26311, 26330, 11732, 11659 & 11732, 27897, 20224, and a domestic well in section 30-31-32.

The saturated thickness at the proposed well location is estimated to be 254 ft, based upon the driller’s log and an observation well in section 31-31-32. 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:

$S = 0.188$, $T = 6617 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 87$ days (based on average use and observed rate),
 $Q_{\text{current}} = 727 \text{ gpm}$ (based on 2020 field inspection), $tp_{\text{proposed}} = 72$ days, $Q_{\text{proposed}} = 1000 \text{ gpm}$

Theis drawdowns were calculated as follows:

- 26311: Drawdown from current location = 1.66 ft
 Drawdown from proposed location = 1.94 ft
 Net drawdown = **0.3 ft**
- 26330: Drawdown from current location = 2.39 ft
 Drawdown from proposed location = 2.85 ft
 Net drawdown = **0.5 ft**

11732: Drawdown from current location = 1.78 ft
Drawdown from proposed location = 2.02 ft
Net drawdown = **0.2 ft**

11659 & 11732: Drawdown from current location = 2.50 ft
Drawdown from proposed location = 2.44 ft
Net drawdown = **-0.1 ft**

27897: Drawdown from current location = 1.92 ft
Drawdown from proposed location = 1.92 ft
Net drawdown = **0.0 ft**

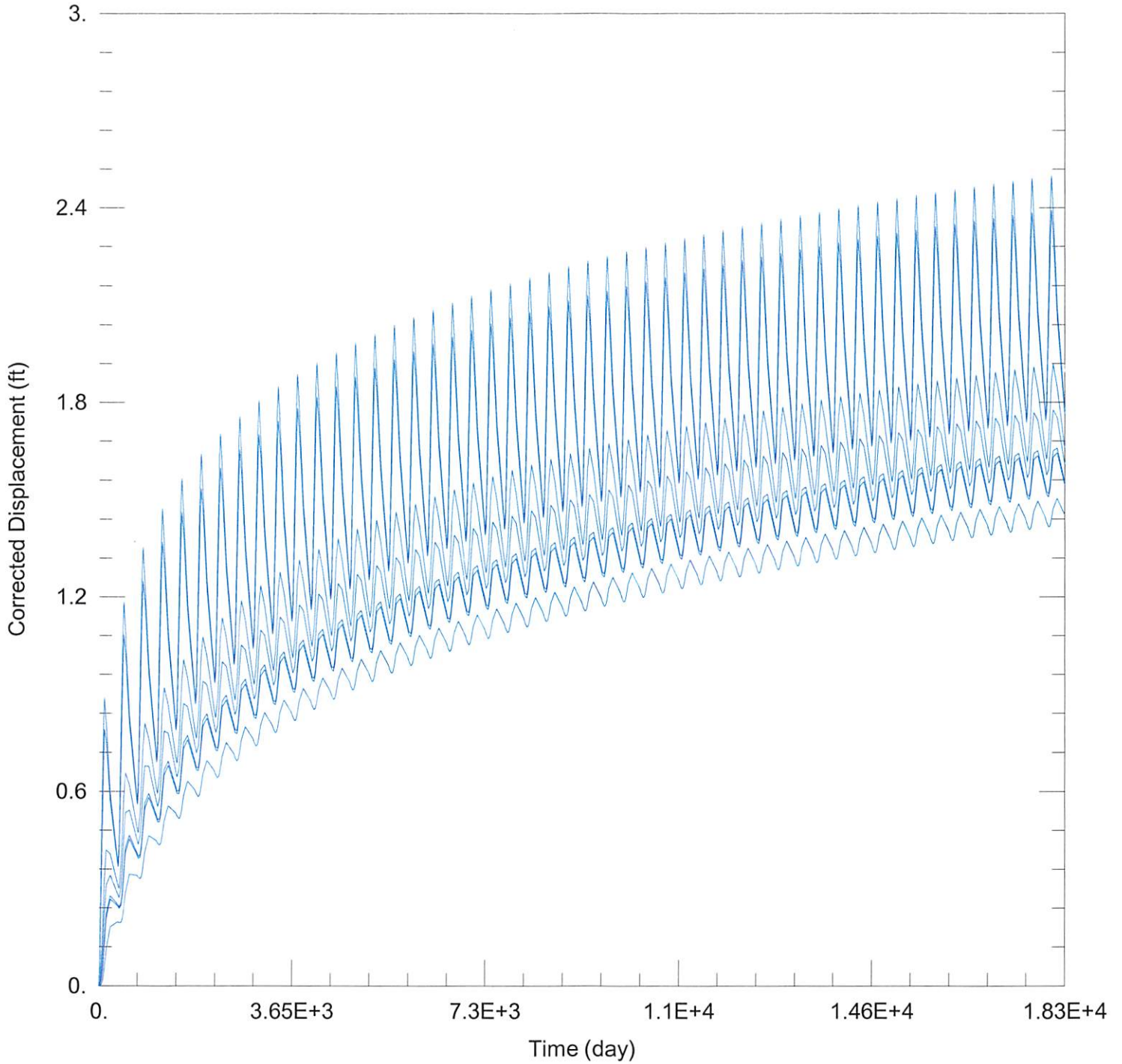
20224: Drawdown from current location = 1.64 ft
Drawdown from proposed location = 1.88 ft
Net drawdown = **0.2 ft**

Domestic 30-31-32: Drawdown from current location = 1.50 ft
Drawdown from proposed location = 1.88 ft
Net drawdown = **0.4 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\22023\22023 Current.aqt
 Date: 02/16/23 Time: 14:47:22

PROJECT INFORMATION

Company: GMD 3
 Project: 22023
 Location: Seward County

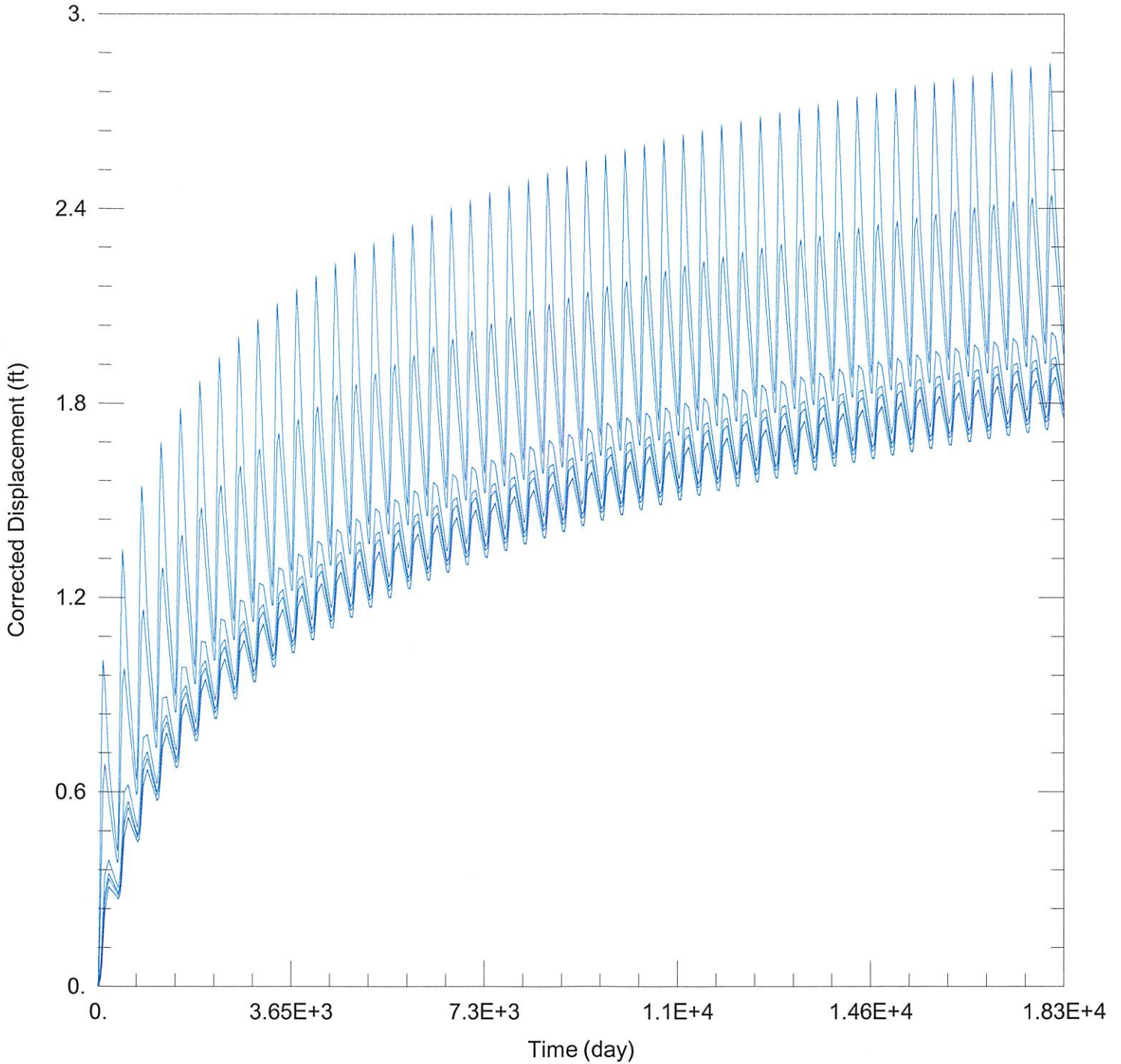
WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
22023	-10312	159085

Well Name	X (ft)	Y (ft)
□	-10312	159085



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\22023\22023 Proposed.aqt
 Date: 02/16/23 Time: 14:47:15

PROJECT INFORMATION

Company: GMD 3
 Project: 22023
 Location: Seward County

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
22023	-10179	159991

Well Name	X (ft)	Y (ft)
□	-10179	159991