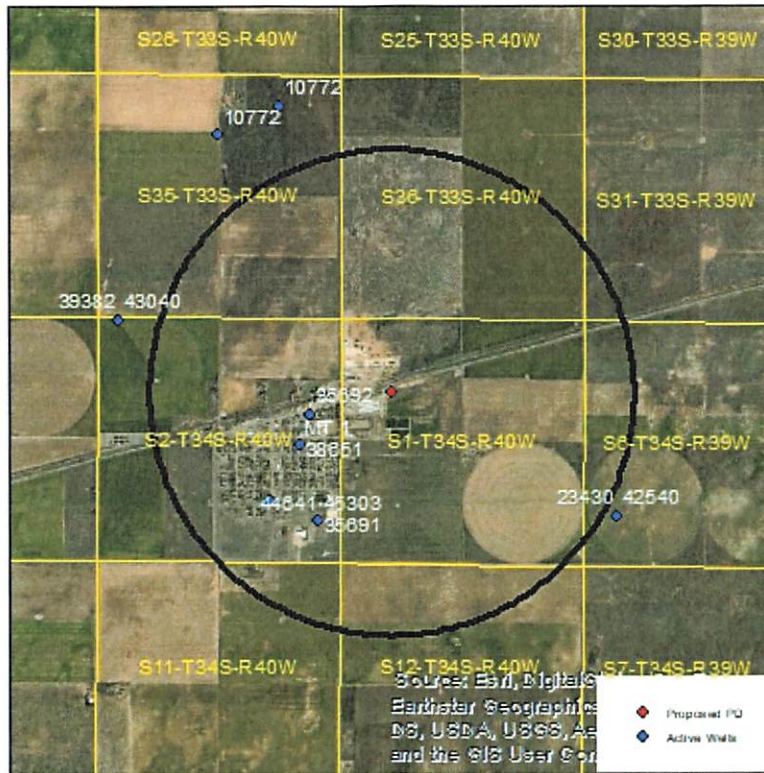


Evaluation of proposed move for Water Right Nos. MT1 & 38651

Proposed: Move water right nos. MT1 & 38651 to a new well location, a distance of 2,295 ft to the northeast.



Wells within 1 mile: 35692, 35693, and 35691 & 44641 & 45303.

The saturated thickness at the proposed well location is estimated to be 269 ft, based upon the driller’s log and an observation well in section 6-34-39. 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:

$S = 0.1524$, $T = 2404.3 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 51 \text{ days}$ (based on average use and reported rate), $Q_{\text{current}} = 179 \text{ gpm}$ (based on 2017 water use report), $tp_{\text{proposed}} = 118 \text{ days}$, $Q_{\text{proposed}} = 312 \text{ gpm}$

Theis drawdowns were calculated as follows:

- 35692:
 - Drawdown from current location = 2.36 ft
 - Drawdown from proposed location = 3.96 ft
 - Net drawdown = **1.6 ft**

- 35693:
 - Drawdown from current location = 1.33 ft
 - Drawdown from proposed location = 2.63 ft
 - Net drawdown = **1.3 ft**

35691 & 44641 & 45303: Drawdown from current location = 1.10 ft

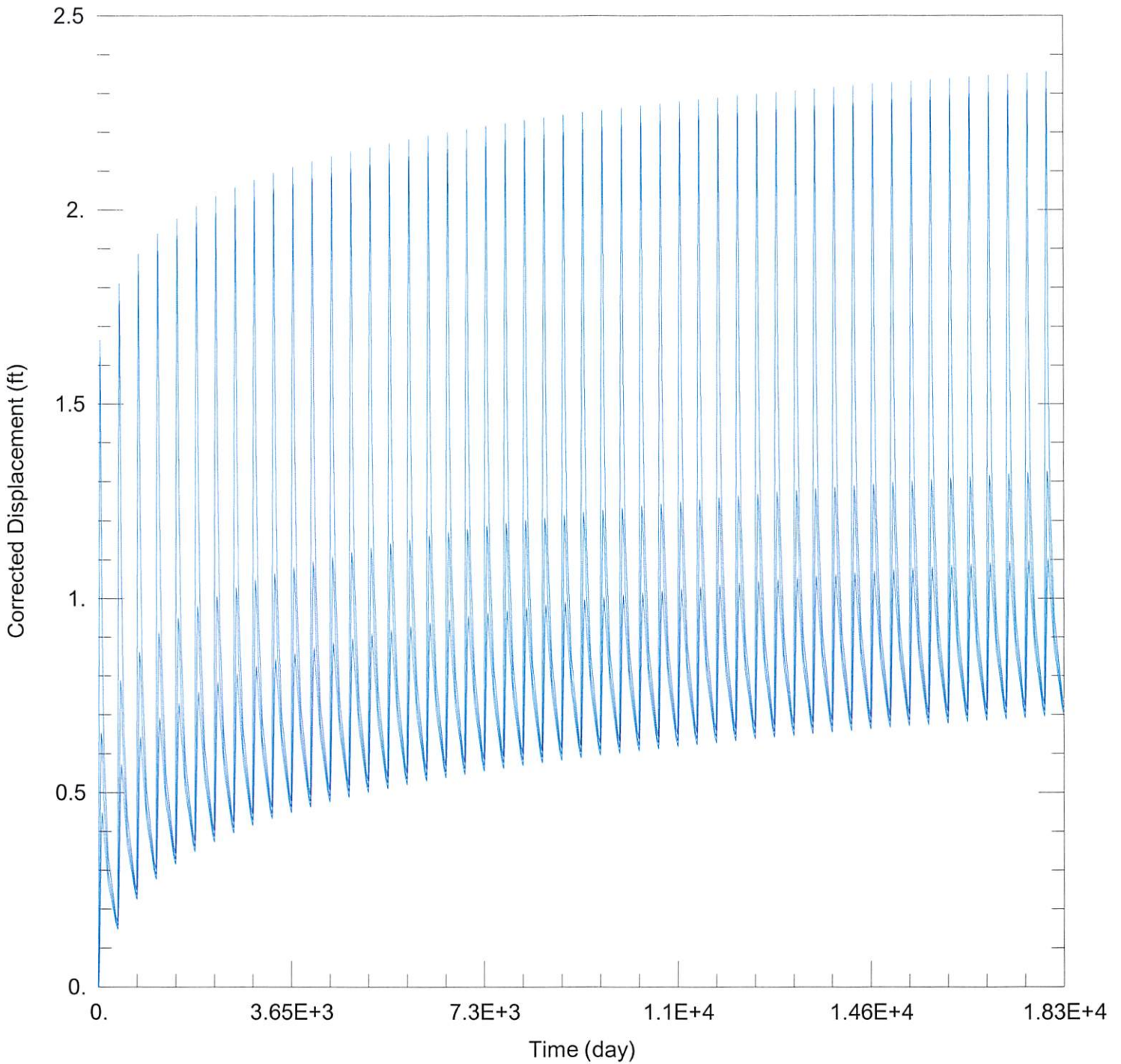
Drawdown from proposed location = 2.79 ft

Net drawdown = **1.7 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\MT1_38651\MT1 & 38651 Current.aqt
 Date: 09/30/22 Time: 15:59:27

PROJECT INFORMATION

Company: GMD 3
 Project: MT1 & 38651
 Location: Morton County

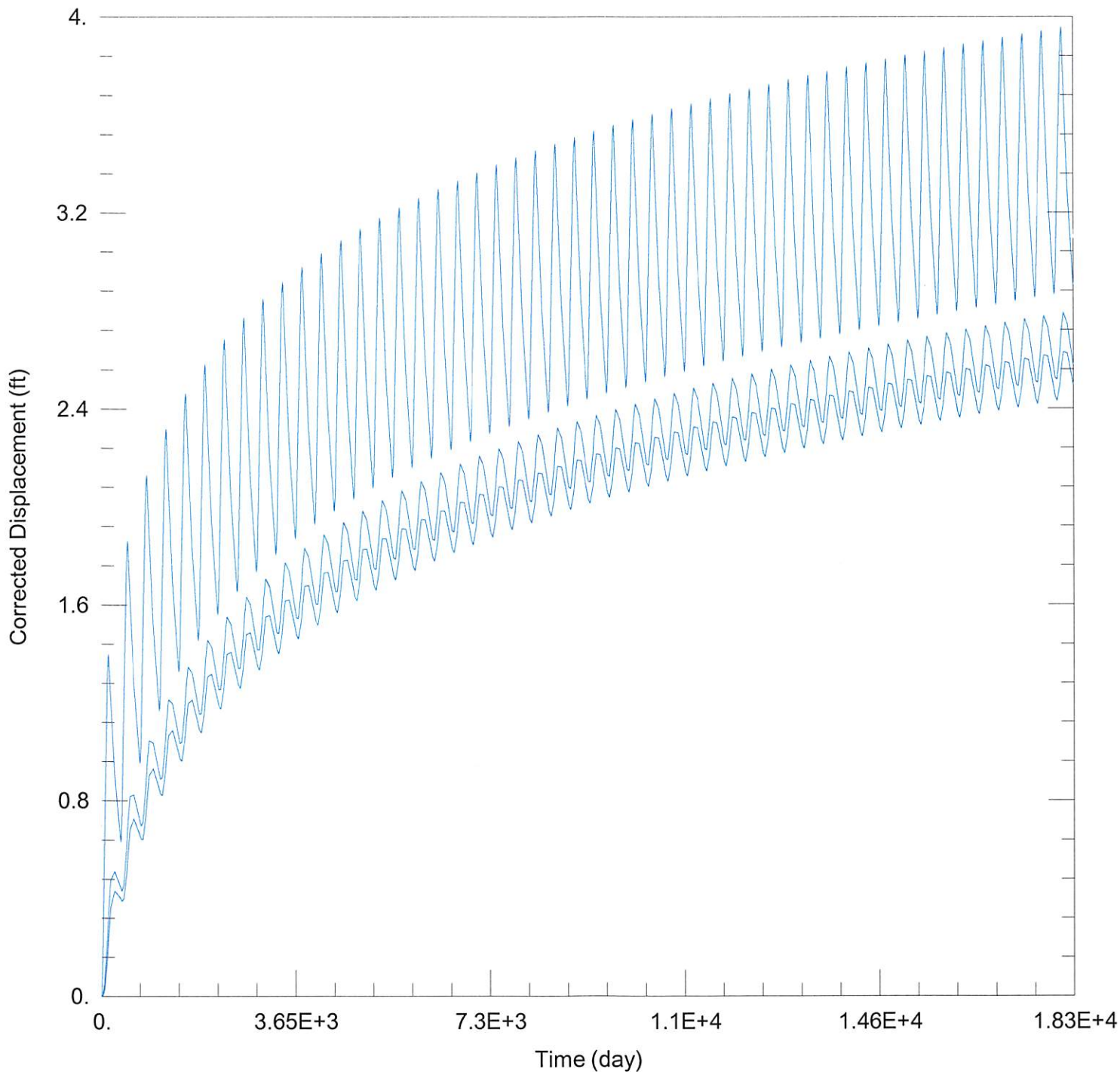
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MT1 & 38651	-242434	90154

Observation Wells

Well Name	X (ft)	Y (ft)
□	-242434	90154



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\MT1_38651\MT1 & 38651 Proposed.aqt
 Date: 09/30/22 Time: 15:59:21

PROJECT INFORMATION

Company: GMD 3
 Project: MT1 & 38651
 Location: Morton County

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
MT1 & 38651	-240444	91298

Well Name	X (ft)	Y (ft)
□	-240444	91298