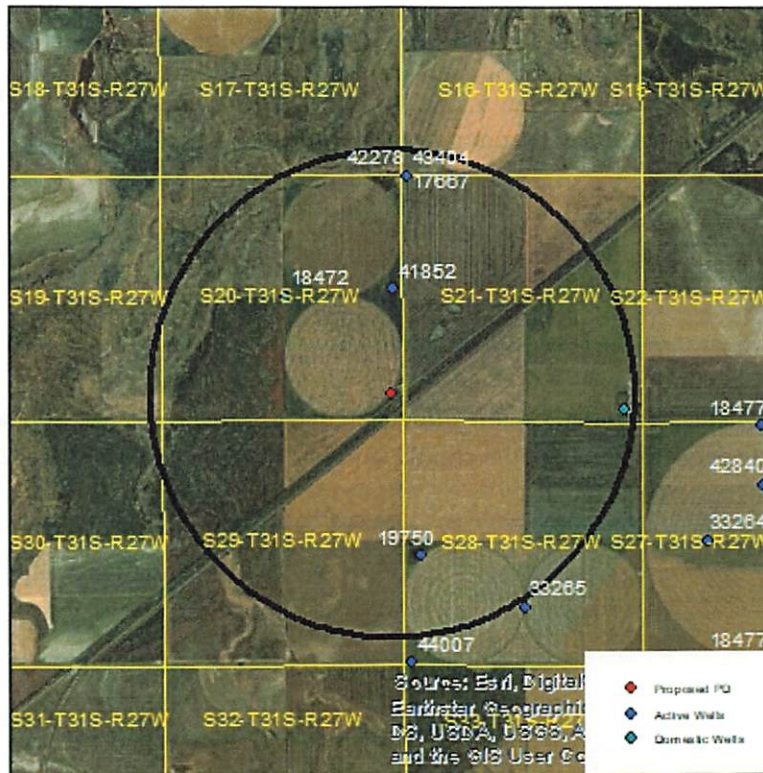


Evaluation of proposed move for Water Right No. 41852

Proposed: Move water right no. 41852 to a new well location, a distance of 2,229 ft to the south.



Wells within 1 mile: 18472, 17667 & 42278 & 43404, 19750, and a domestic well in section 21-31-27.

The saturated thickness at the proposed well location is estimated to be 181 ft, based upon the driller’s log and an observation well in section 20-31-37. For saturated thickness between 150 ft and 200 ft, the drawdown allowance is 3.5 ft.

50 year Theis Analysis: The following values were used to run the analysis:

$S = 0.05236$, $T = 7190 \text{ ft}^2/\text{day}$, $t_{p\text{current}} = 75 \text{ days}$ (based on average use and reported rate),
 $Q_{\text{current}} = 230 \text{ gpm}$ (based on 2014 water use report), $t_{p\text{proposed}} = 130 \text{ days}$, $Q_{\text{proposed}} = 395 \text{ gpm}$

Theis drawdowns were calculated as follows:

- 18472:
 - Drawdown from current location = 1.20 ft
 - Drawdown from proposed location = 2.55 ft
 - Net drawdown = **1.3 ft**

- 17667 & 42278 & 43404:
 - Drawdown from current location = 1.15 ft
 - Drawdown from proposed location = 2.00 ft
 - Net drawdown = **0.9 ft**

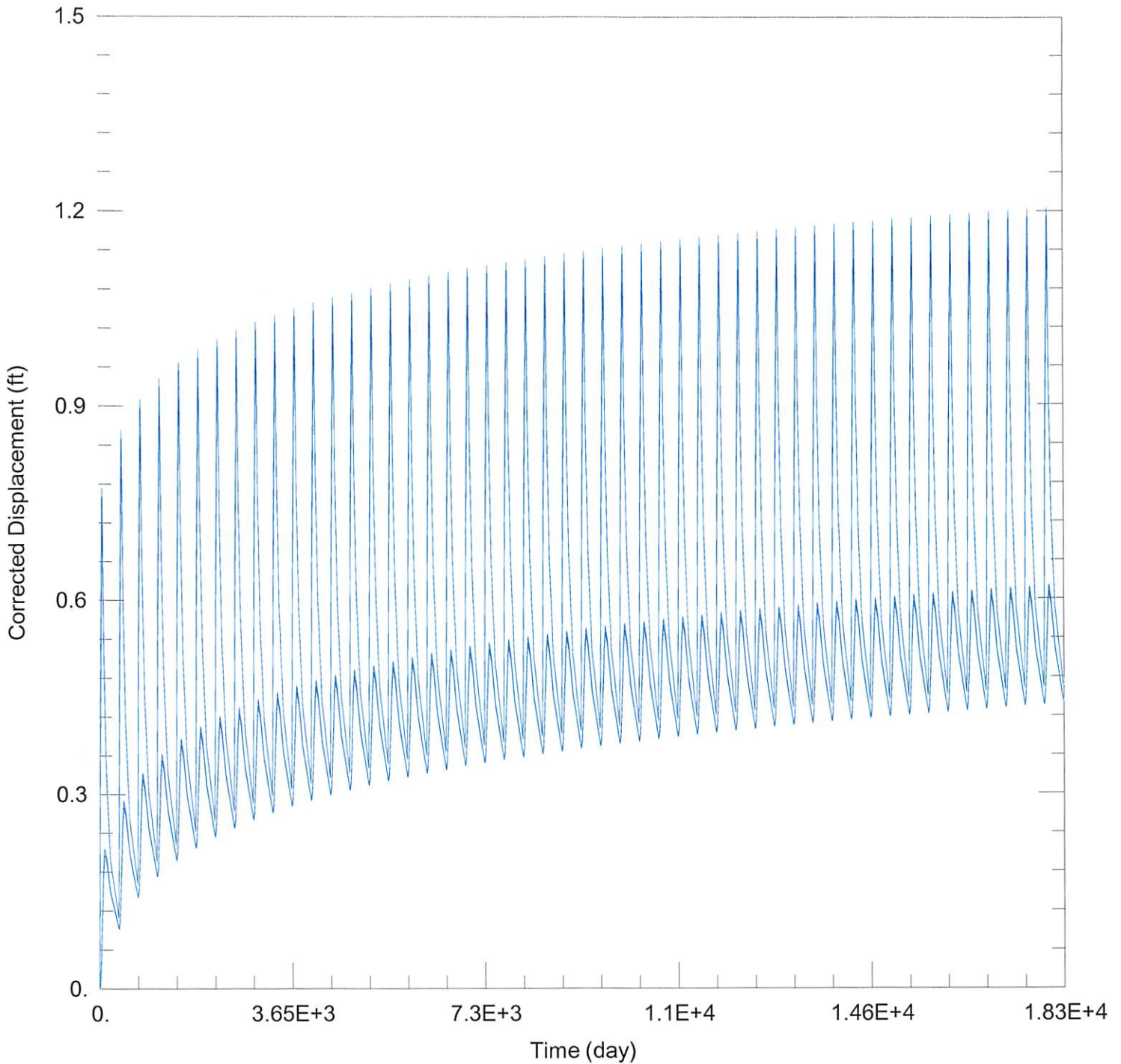
19750: Drawdown from current location = 0.61 ft
Drawdown from proposed location = 2.36 ft
Net drawdown = **1.7 ft**

Domestic 21-31-27: Drawdown from current location = 0.62 ft
Drawdown from proposed location = 1.90 ft
Net drawdown = **1.3 ft**

Net drawdown does not exceed the drawdown allowance of 3.5 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\41852\41852 Current.aqt
 Date: 12/20/22 Time: 15:54:32

PROJECT INFORMATION

Company: GMD 3
 Project: 41852
 Location: Meade County

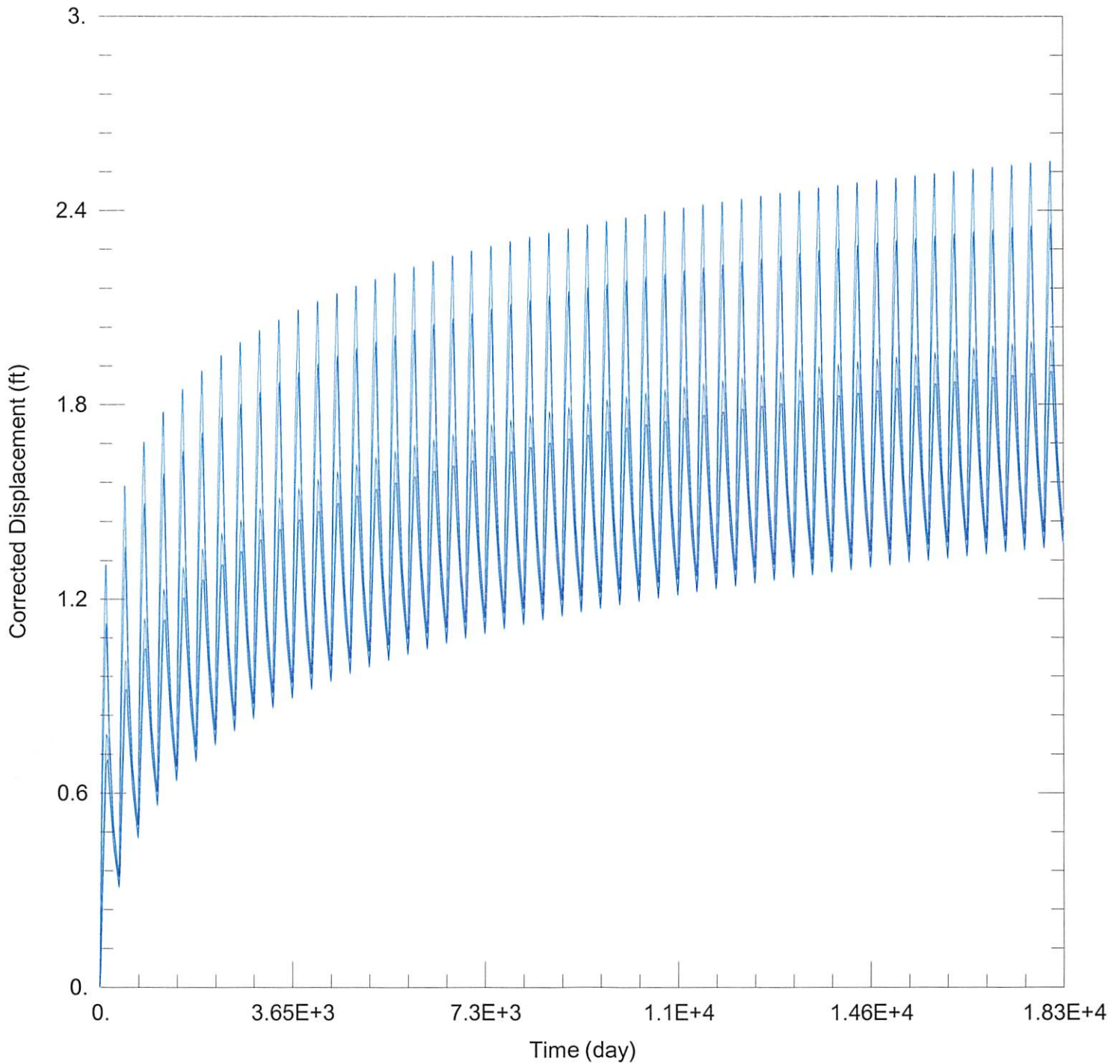
WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
41852	152970	168513

Well Name	X (ft)	Y (ft)
□	152970	168513



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\41852\41852 Proposed.aqt
 Date: 12/20/22 Time: 15:54:26

PROJECT INFORMATION

Company: GMD 3
 Project: 41852
 Location: Meade County

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
41852	152959	166285

Well Name	X (ft)	Y (ft)
□	152959	166285