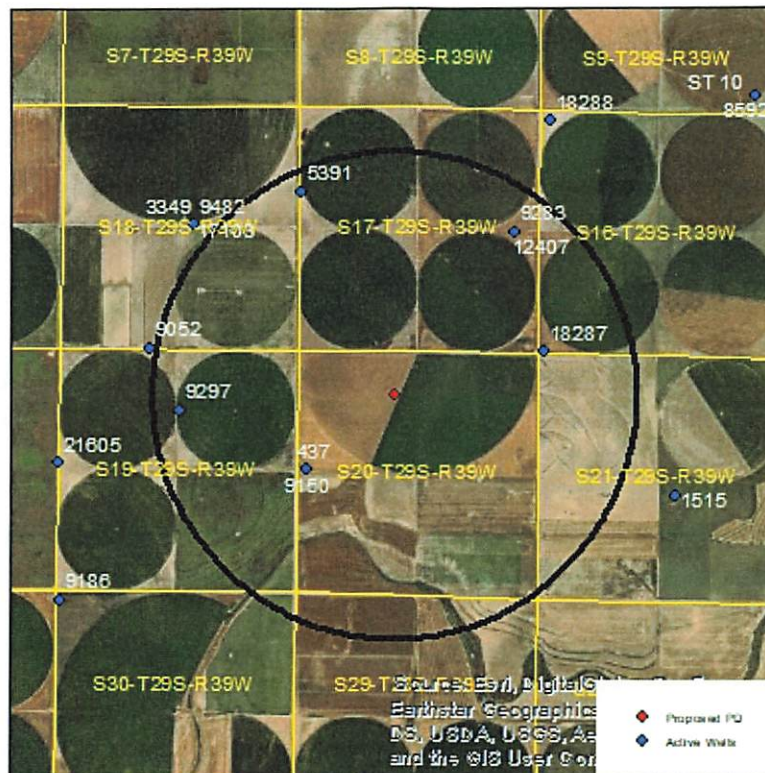


Evaluation of proposed move for Water Right Nos. 437 & 9150

Proposed: Move water right nos. 437 & 9150 to a new well location, a distance of 2,518 ft to the northeast.



Wells within 1 mile: 5391, 9283 & 12407, 18287, and 9297.

The saturated thickness at the proposed well location is estimated to be 167 ft, based upon the driller's log and an observation well in section 20-29-39. 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:

$S = 0.2241$, $T = 6952.2 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 170 \text{ days}$ (based on average use and observed rate),
 $Q_{\text{current}} = 449 \text{ gpm}$ (based on 2018 field inspection), $tp_{\text{proposed}} = 80 \text{ days}$, $Q_{\text{proposed}} = 1800 \text{ gpm}$

Theis drawdowns were calculated as follows:

5391: Drawdown from current location = 1.67 ft
Drawdown from proposed location = 3.61 ft
Net drawdown = **1.9 ft**

9283 & 12407: Drawdown from current location = 1.55 ft
Drawdown from proposed location = 3.84 ft
Net drawdown = **2.3 ft**

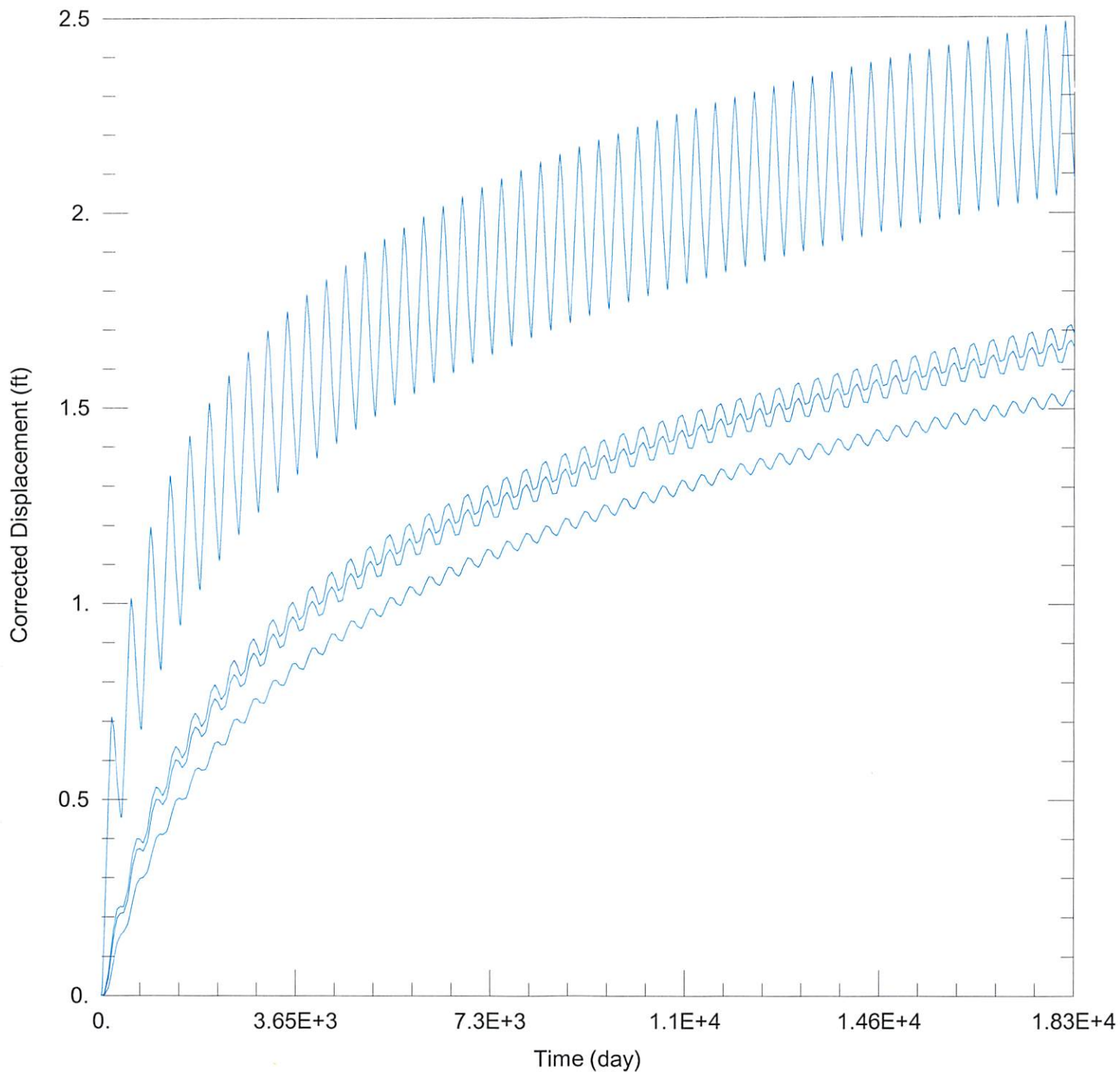
18287: Drawdown from current location = 1.71 ft
Drawdown from proposed location = 4.54 ft
Net drawdown = **2.8 ft**

9297: Drawdown from current location = 2.49 ft
Drawdown from proposed location = 3.67 ft
Net drawdown = **1.2 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\2023_moves\437_9150\437 & 9150 Current.aqt

Date: 01/27/23

Time: 16:21:21

PROJECT INFORMATION

Company: GMD 3

Project: 437 & 9150

Location: Stanton County

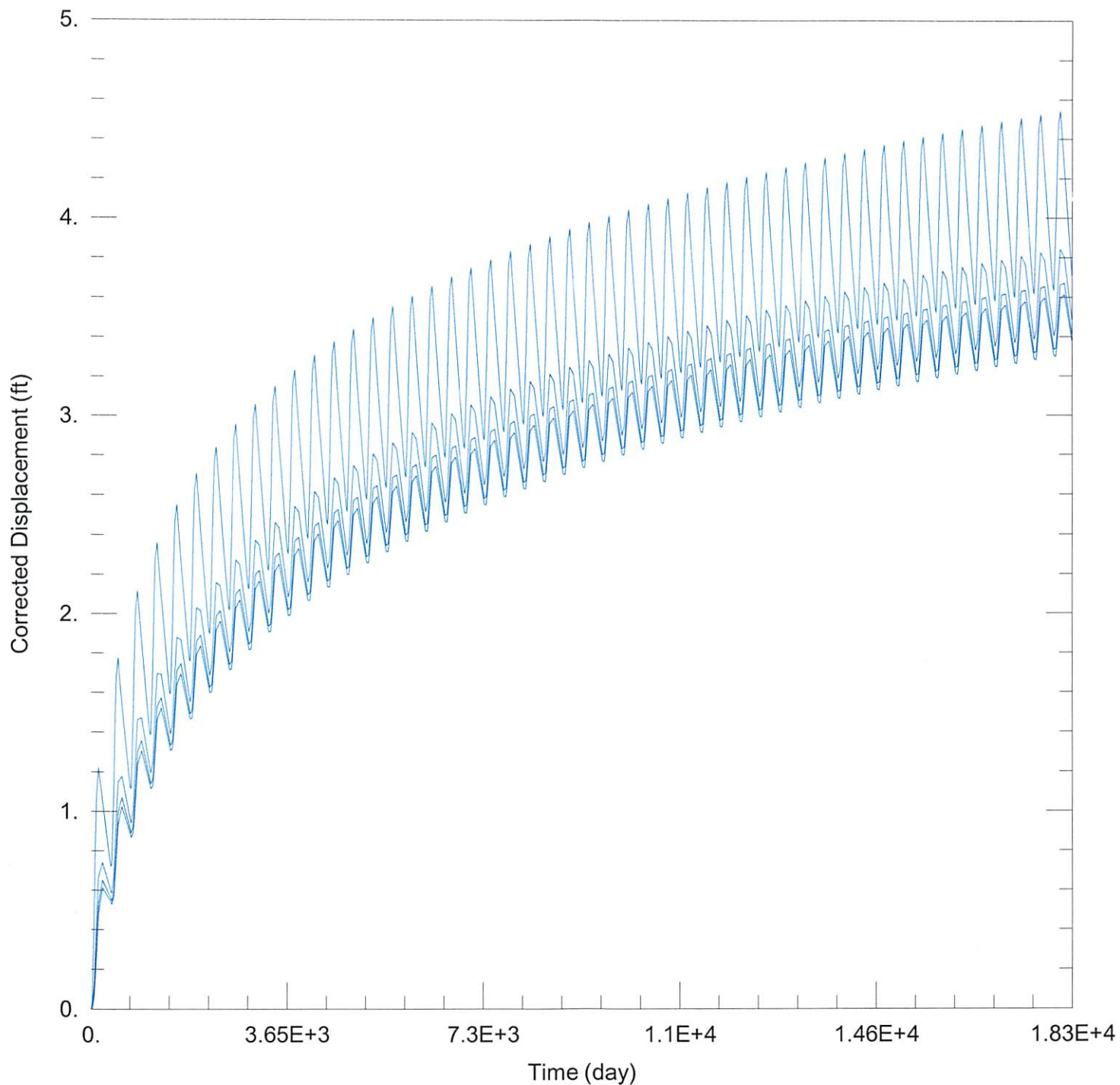
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
437 & 9150	-236963	232926

Observation Wells

Well Name	X (ft)	Y (ft)
□	-236963	232926



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\437_9150\437 & 9150 Proposed.aqt

Date: 01/27/23

Time: 16:21:13

PROJECT INFORMATION

Company: GMD 3

Project: 437 & 9150

Location: Stanton County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
437 & 9150	-235043	234555

Observation Wells

Well Name	X (ft)	Y (ft)
□	-235043	234555