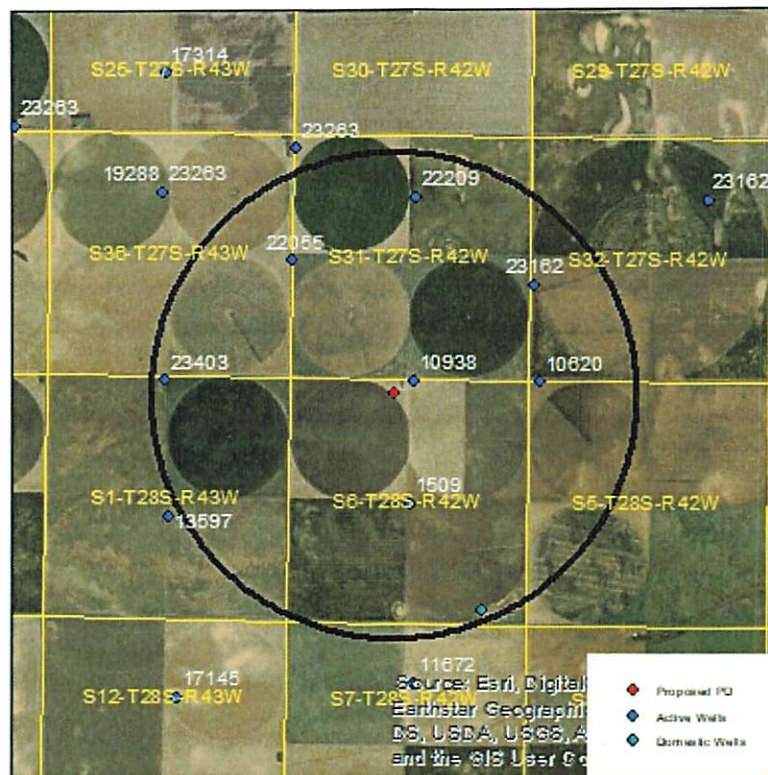


Evaluation of proposed move for Water Right No. 10938

Proposed: Move water right no. 10938 to a new well location, a distance of 549 ft to the southwest.



Wells within 1 mile: 22055, 22209, 23162, 23403, 1509, 10620, and a domestic well in section 6-28-42.

The saturated thickness at the proposed well location is estimated to be 265 ft, based upon the driller's log and an observation well in section 1-28-43. 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:

$S = 0.0900$, $T = 2082 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 333 \text{ days}$ (based on average use and reported rate),
 $Q_{\text{current}} = 220 \text{ gpm}$ (based on 2021 water use report), $tp_{\text{proposed}} = 146 \text{ days}$, $Q_{\text{proposed}} = 650 \text{ gpm}$

Theis drawdowns were calculated as follows:

22055: Drawdown from current location = 6.29 ft
Drawdown from proposed location = 8.62 ft
Net drawdown = **2.3 ft**

22209: Drawdown from current location = 6.10 ft
Drawdown from proposed location = 7.79 ft
Net drawdown = **1.7 ft**

23162: Drawdown from current location = 6.65 ft
Drawdown from proposed location = 8.32 ft
Net drawdown = **1.7 ft**

23403: Drawdown from current location = 5.16 ft
Drawdown from proposed location = 7.14 ft
Net drawdown = **2.0 ft**

1509: Drawdown from current location = 7.35 ft
Drawdown from proposed location = 11.09 ft
Net drawdown = **3.7 ft**

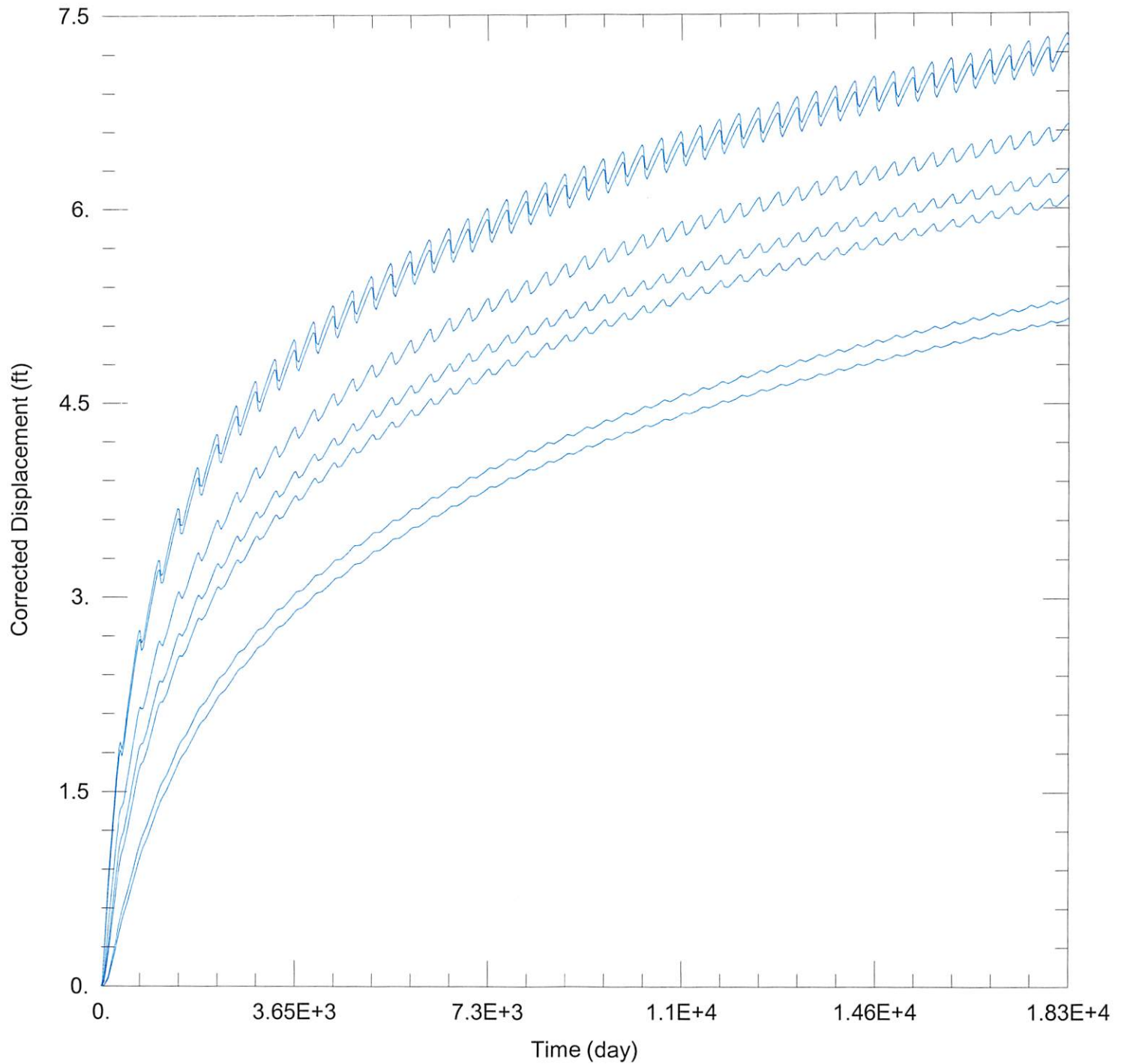
10620: Drawdown from current location = 7.27 ft
Drawdown from proposed location = 9.28 ft
Net drawdown = **2.0 ft**

Domestic 6-28-42: Drawdown from current location = 5.31 ft
Drawdown from proposed location = 7.09 ft
Net drawdown = **1.8 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\10938\10938 Current.aqt

Date: 02/03/23

Time: 15:48:06

PROJECT INFORMATION

Company: GMD 3

Project: 10938

Location: Stanton County

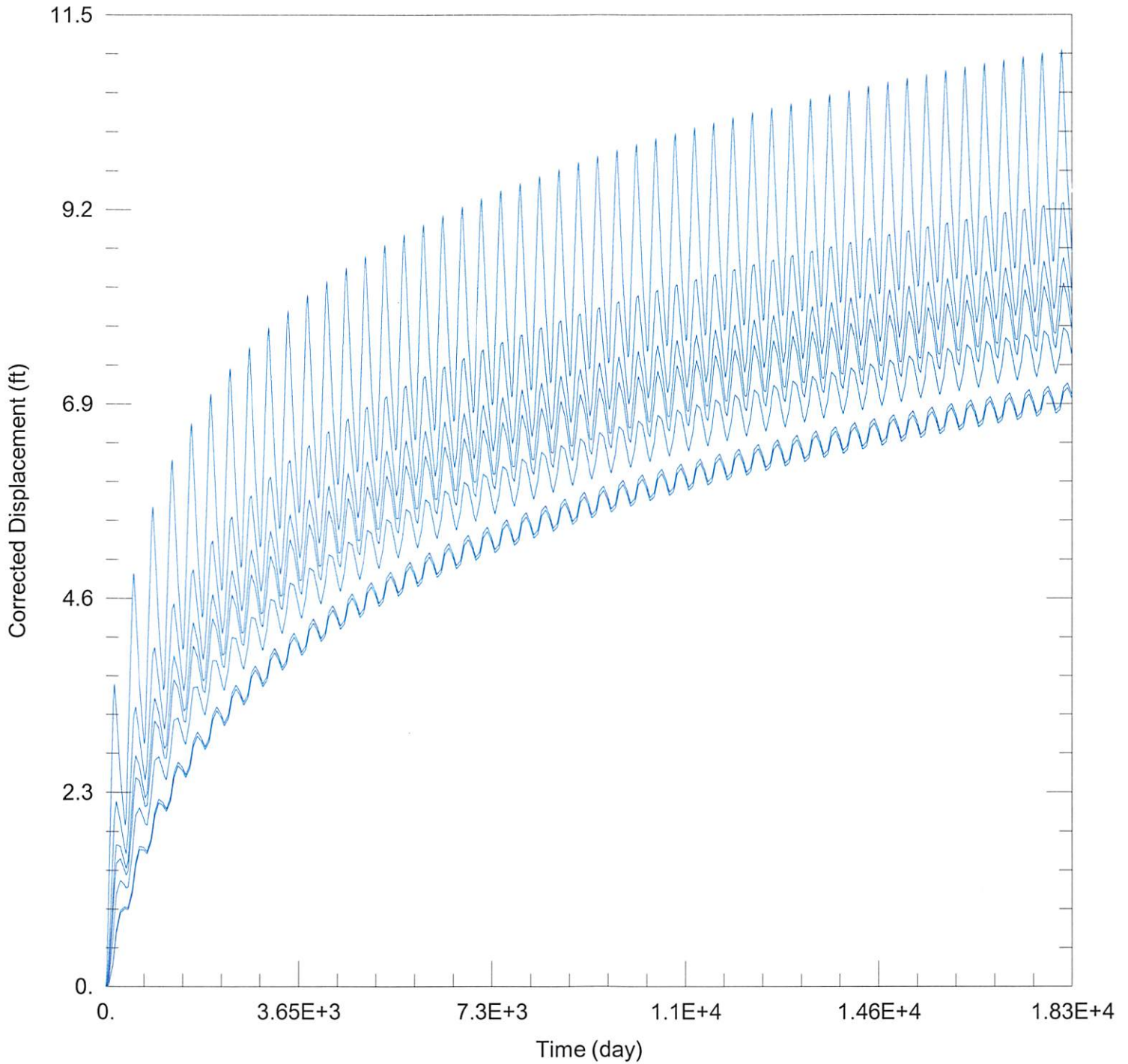
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
10938	-333679	284628

Observation Wells

Well Name	X (ft)	Y (ft)
□	-333679	284628



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\10938\10938 Proposed.aqt

Date: 02/03/23

Time: 15:47:59

PROJECT INFORMATION

Company: GMD 3

Project: 10938

Location: Stanton County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
10938	-334144	284337

Observation Wells

Well Name	X (ft)	Y (ft)
□	-334144	284337