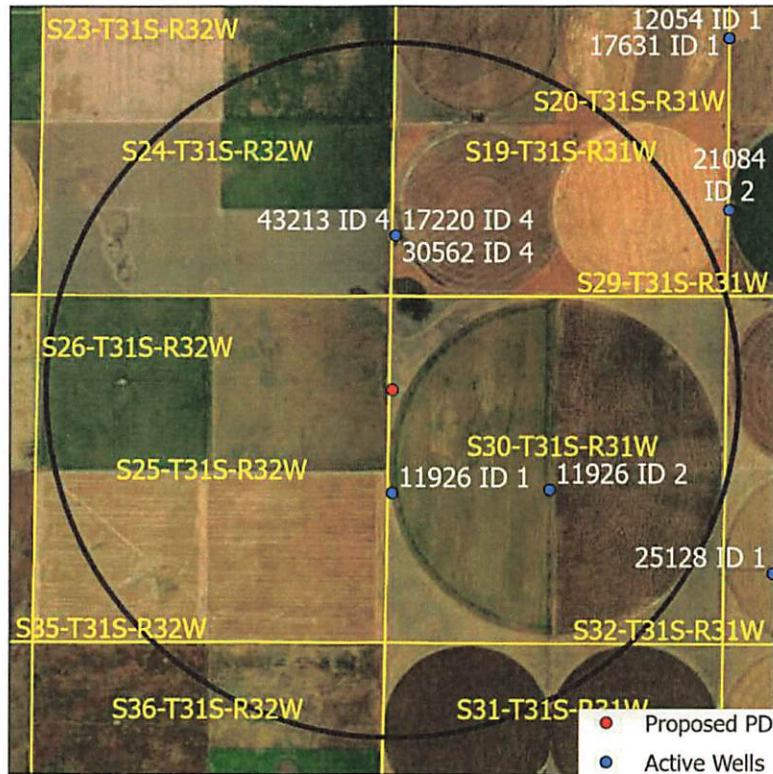


Evaluation of proposed move for Water Right No. 11926

Proposed: Move water right no. 11926 ID1 to a new well location, a distance of 1,557 ft to the north.



Wells within 1 mile: 11926 ID2 and 17220 & 30562 & 43213.

The saturated thickness at the proposed well location is estimated to be 248 ft, based upon the GMD3 model. 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:

$S = 0.094$, $T = 122,838 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 86 \text{ days}$ (based on average use and reported rate),
 $Q_{\text{current}} = 600 \text{ gpm}$ (based on 2017 water use report), $tp_{\text{proposed}} = 127 \text{ days}$, $Q_{\text{proposed}} = 1465 \text{ gpm}$

Theis drawdowns were calculated as follows:

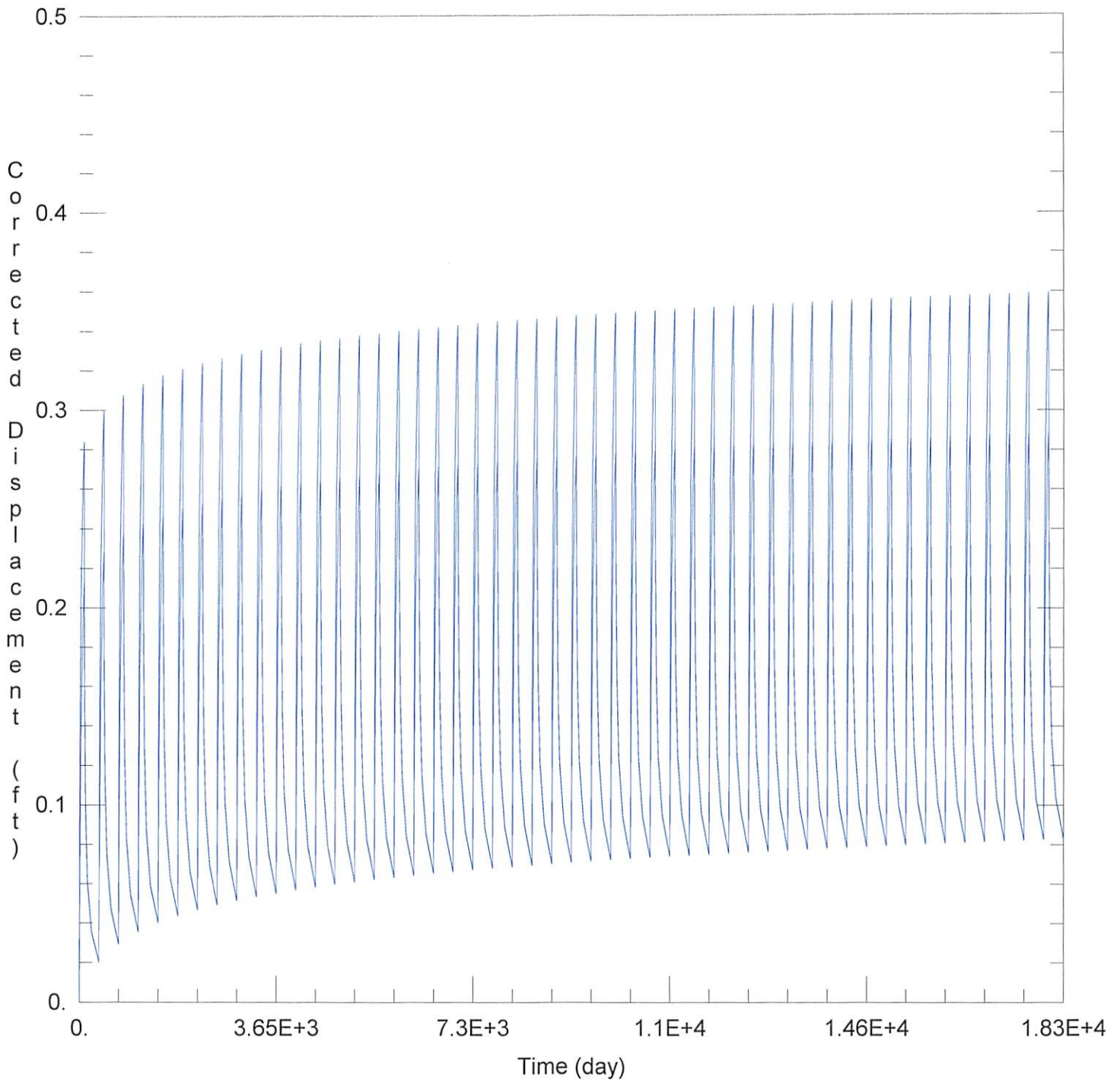
11926 ID2: Drawdown from current location = 0.36 ft
 Drawdown from proposed location = 0.97 ft
 Net drawdown = **0.6 ft**

17220 & 30562 & 43213: Drawdown from current location = 0.29 ft
 Drawdown from proposed location = 1.04 ft
 Net drawdown = **0.8 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\2024_moves\11926\11926 Current.aqt
 Date: 02/06/25 Time: 16:21:23

PROJECT INFORMATION

Company: GMD 3
 Project: 11926
 Location: Seward County

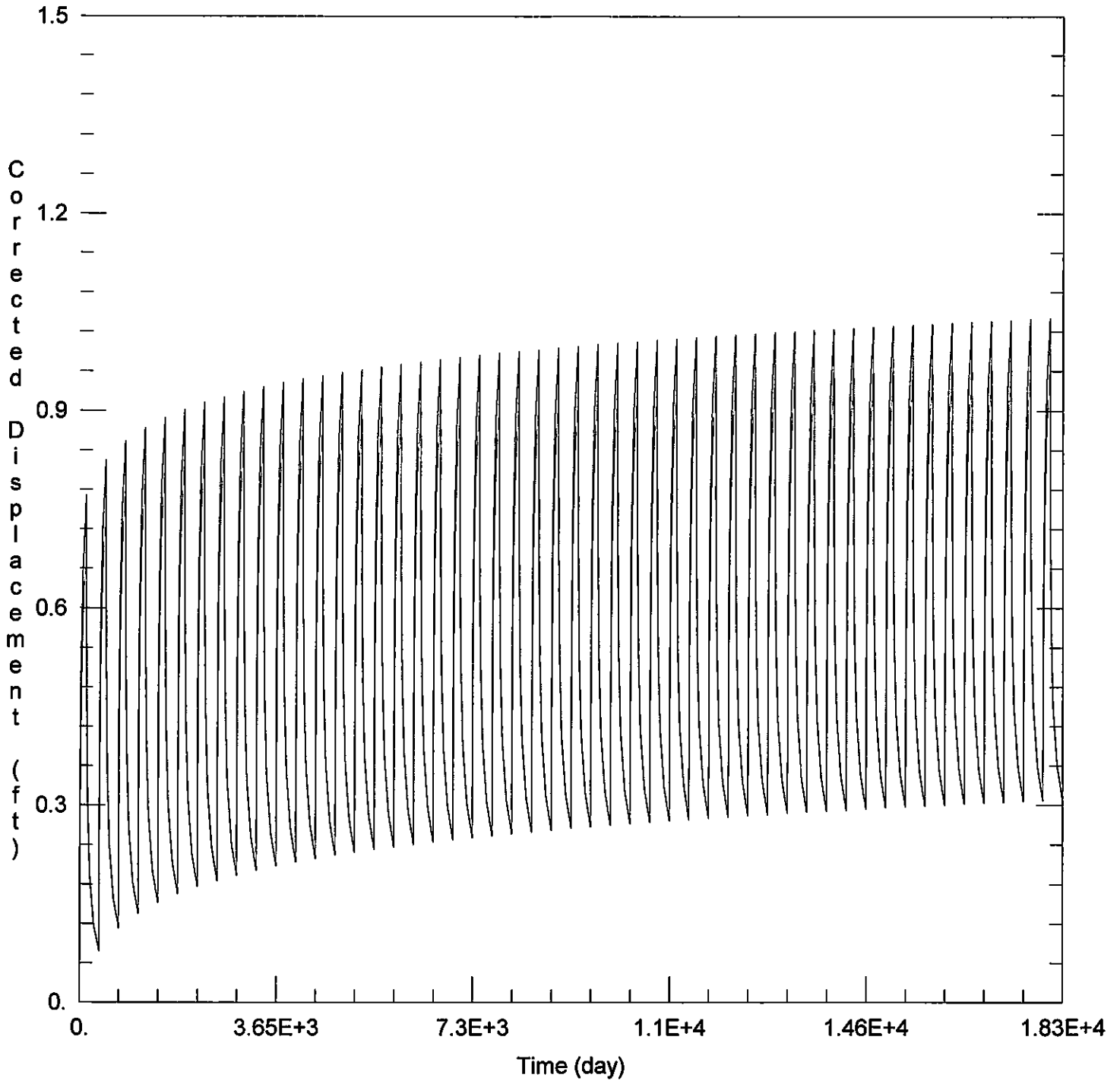
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
11926 ID1	16367	162497

Observation Wells

Well Name	X (ft)	Y (ft)
□	16367	162497
□ <u>11926 ID2</u>	<u>18769</u>	<u>162556</u>



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024_moves\11926\11926 Proposed.aqt
 Date: 02/06/25 Time: 16:21:30

PROJECT INFORMATION

Company: GMD 3
 Project: 11926
 Location: Seward County

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
11926 ID1	16370	164054

Well Name	X (ft)	Y (ft)
□ 11926 ID2	18760	162556