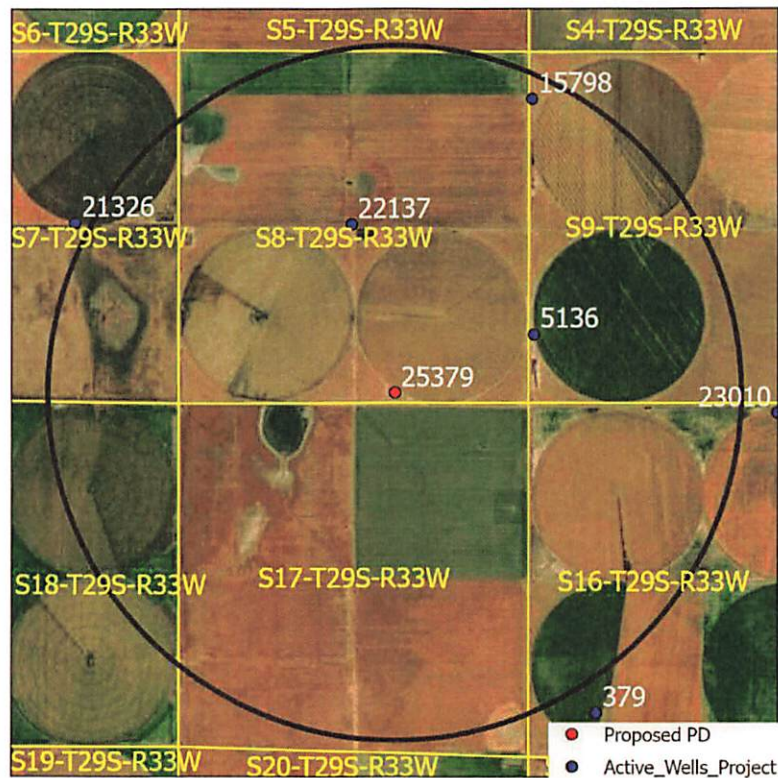


Evaluation of proposed move for Water Right Nos. 5136 and 25379

Proposed: Move water right no. 5136 to the well location currently authorized under water right no. 25379. Move water right no. 25379 to the well location currently authorized under water right no. 5136.



Wells within 1 mile: 22137 and 15798.

The saturated thickness at the proposed well location is estimated to be 171 ft, based upon the GMD3 model. 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:

$$S = 0.075, T = 43,854 \text{ ft}^2/\text{day}$$

$$5136: t_{p_{\text{current}}} = 215 \text{ days}, Q_{\text{current}} = 383.5 \text{ gpm}, t_{p_{\text{proposed}}} = 189 \text{ days}, Q_{\text{proposed}} = 383.5 \text{ gpm}$$

$$25379: t_{p_{\text{current}}} = 100 \text{ days}, Q_{\text{current}} = 149 \text{ gpm}, t_{p_{\text{proposed}}} = 159 \text{ days}, Q_{\text{proposed}} = 1700 \text{ gpm}$$

Theis drawdowns were calculated as follows:

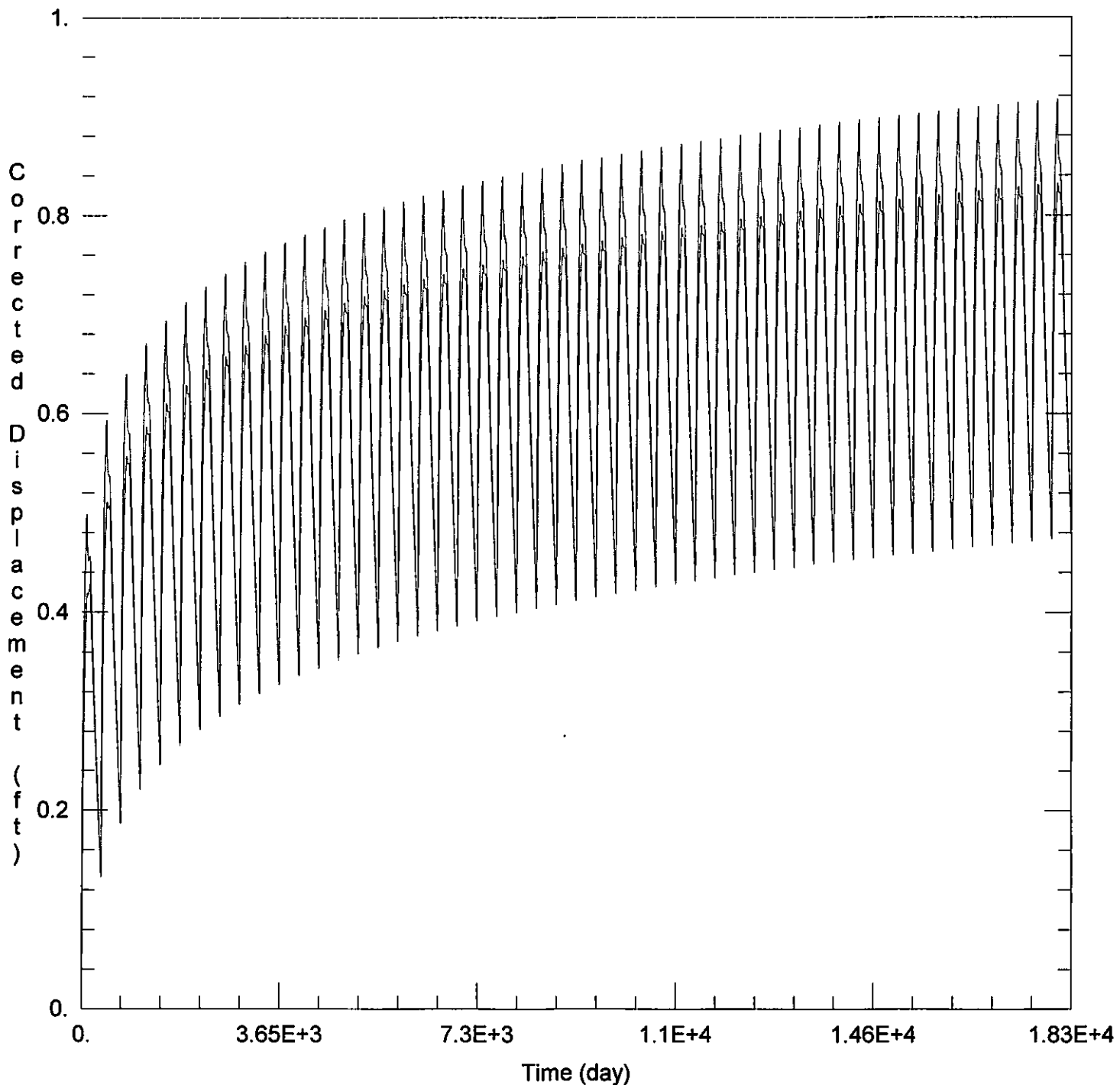
$$\begin{aligned} 22137: \quad & \text{Drawdown from current location} = 0.92 \text{ ft} \\ & \text{Drawdown from proposed location} = 3.81 \text{ ft} \\ & \text{Net drawdown} = \mathbf{2.9 \text{ ft}} \end{aligned}$$

15798: Drawdown from current location = 0.83 ft
Drawdown from proposed location = 3.06 ft
Net drawdown = 2.2 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

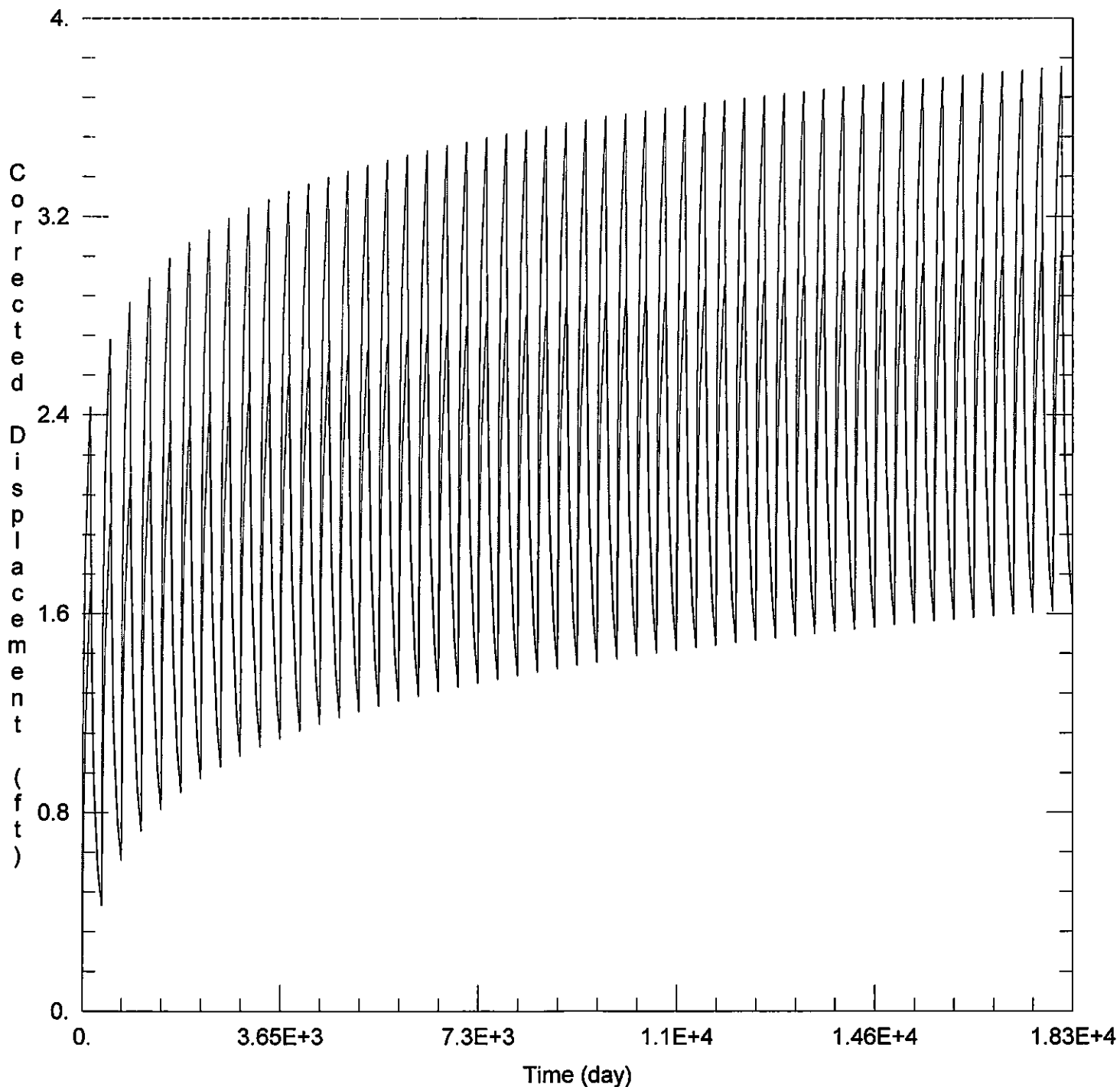
Data Set: C:\Users\trevora\Documents\2024_moves\5136_25379\5136_25379 Current.aqt
 Date: 09/26/24 Time: 14:27:18

PROJECT INFORMATION

Company: GMD 3
 Project: 5136 & 25379
 Location: Haskell County

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
25379	-43919	239777	□	-43919	239777
5136	-41800	240673	□	-41800	240673



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024_moves\5136_25379\5136_25379 Proposed.aqt
 Date: 09/26/24 Time: 14:27:13

PROJECT INFORMATION

Company: GMD 3
 Project: 5136 & 25379
 Location: Haskell County

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
25379	-43919	239777
5136	-41800	240673

Well Name	X (ft)	Y (ft)
□	-43919	239777
□	-41800	240673