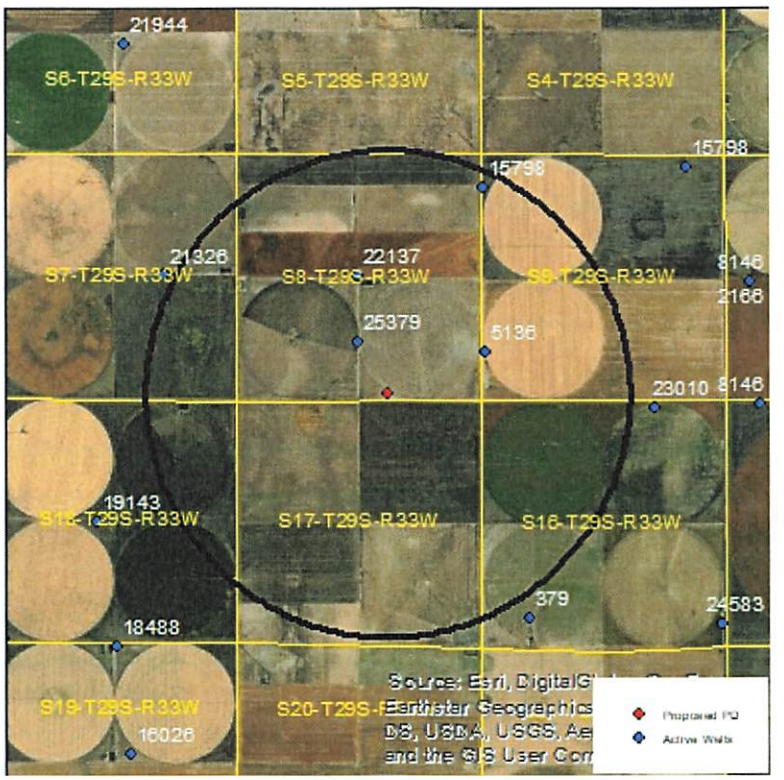
Evaluation of proposed move for Water Right No. 25379

Proposed: Move water right no. 25379 to a new well location, a distance of 1,321 ft to the southeast.



Wells within 1 mile: 15798, 5136 and 22137.

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 = 0.2191, T = 22,214 ft^2/day, $tp_{current}$ = 331 days (based on average use and observed rate), $Q_{current}$ = 50 gpm (based on 2018 field inspection), $tp_{proposed}$ = 85 days, $Q_{proposed}$ = 850 gpm

Theis drawdowns were calculated as follows:

15798: Drawdown from current location = 0.17 ft

Drawdown from proposed location = 0.83 ft

Net drawdown = **0.7 ft**

5136: Drawdown from current location = 0.20 ft

Drawdown from proposed location = 1.43 ft

Net drawdown = **1.2 ft**

22137: Drawdown from current location = 0.25 ft

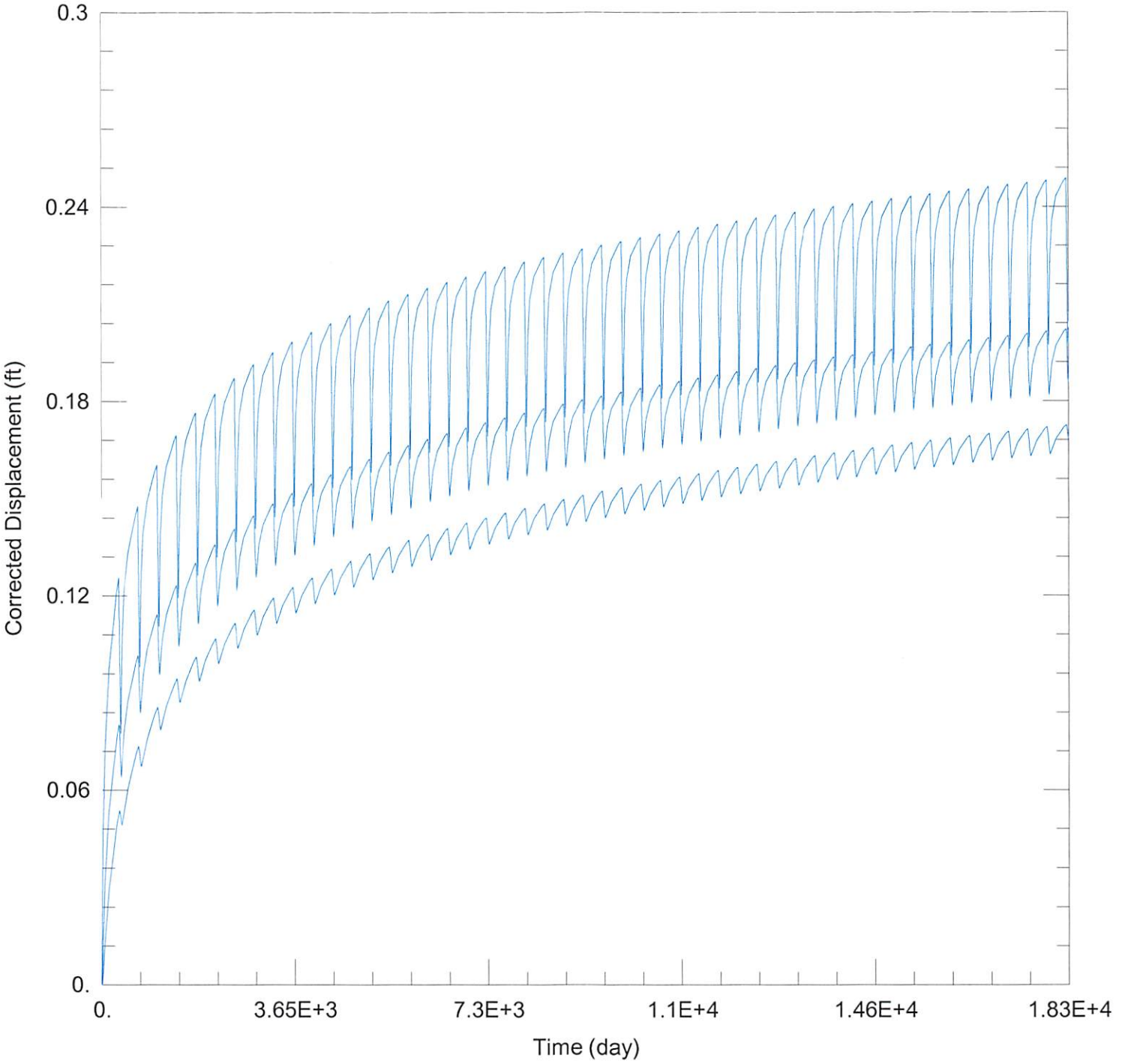
Drawdown from proposed location = 1.30 ft

Net drawdown = **1.1 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\2022_moves\25379\25379 Current.aqt
Date: 10/26/22 Time: 16:17:15

PROJECT INFORMATION

Company: GMD 3
Project: 25379
Location: Haskell County

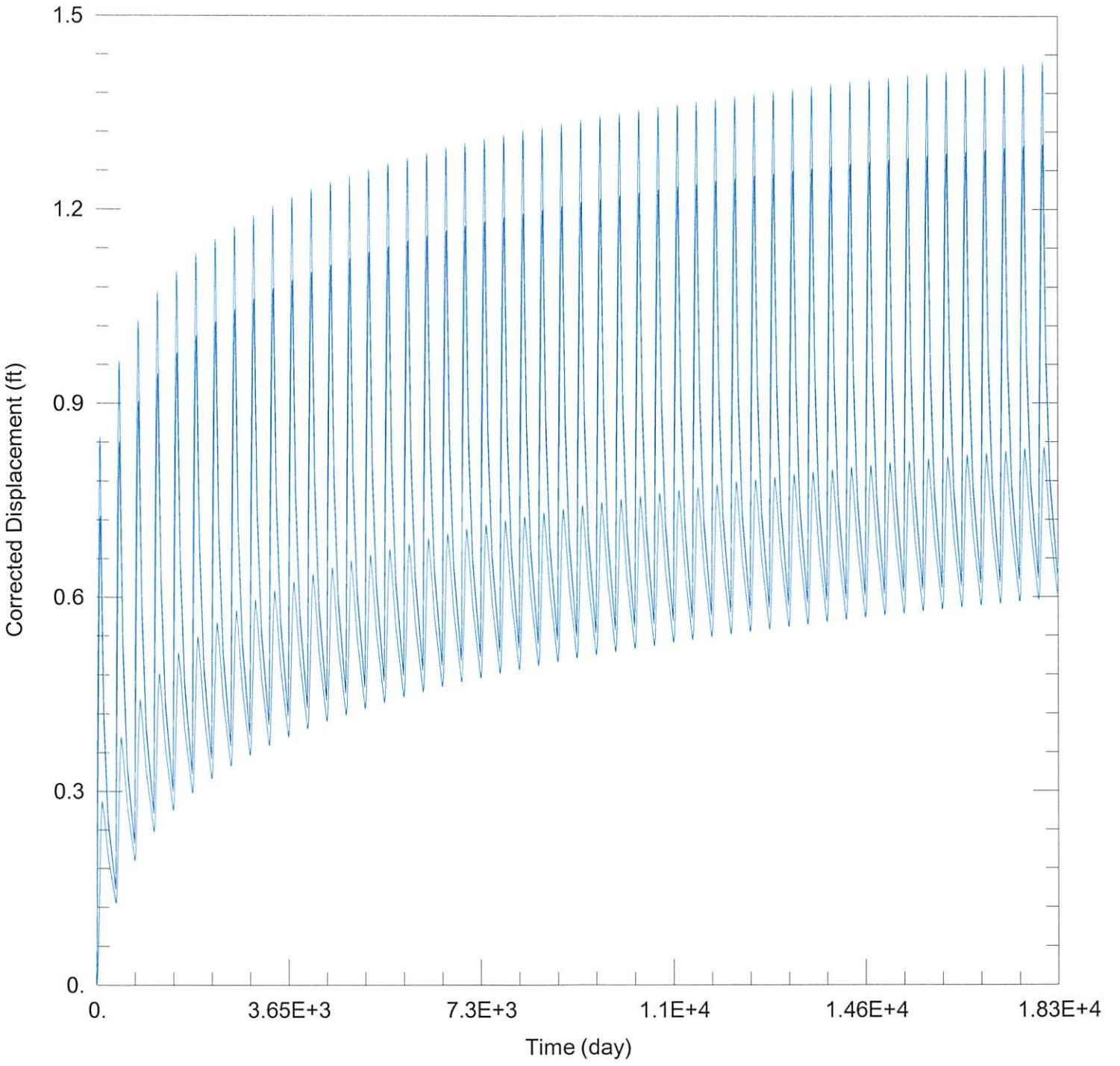
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
25379	-44583	240918

Observation Wells

Well Name	X (ft)	Y (ft)
□	-44583	240918



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\25379\25379 Proposed.aqt
Date: 10/26/22 Time: 16:25:28

PROJECT INFORMATION

Company: GMD 3
Project: 25379
Location: Haskell County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
25379	-43918	239777

Observation Wells

Well Name	X (ft)	Y (ft)
□	-43918	239777