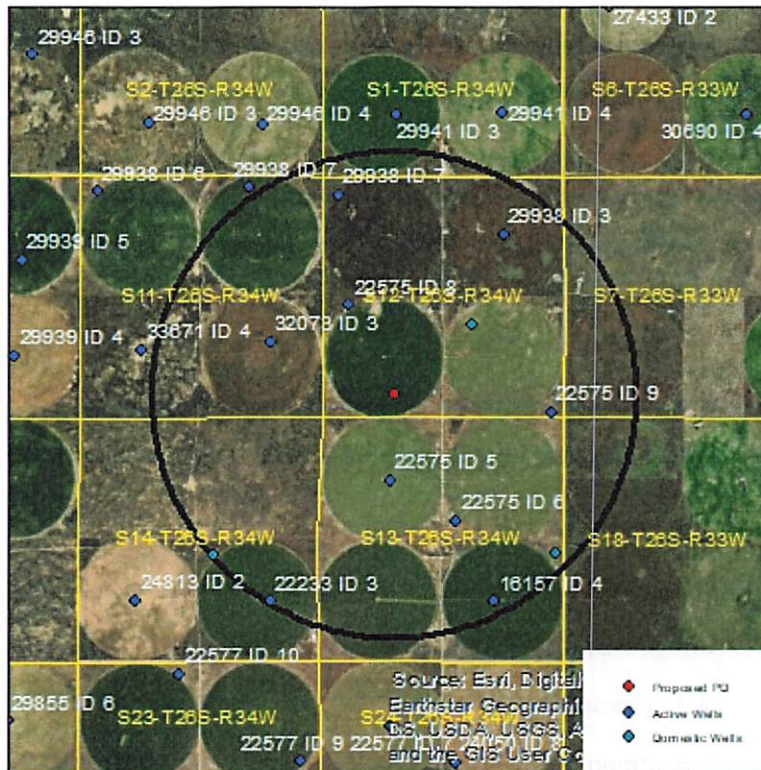


Evaluation of proposed move for Water Right No. 22575 D1

Proposed: Move water right no. 22575 D1 ID8 to a new well location, a distance of 2,151 ft to the southeast.



Wells within 1 mile: 22575 ID5, 22575 ID6, 22575 ID9, 32073, 29938 ID3, 29938 ID7, 22233, 16157, a domestic well in section 12-26-34, a domestic well in section 14-26-34, and a domestic well in section 13-26-34.

The saturated thickness at the proposed well location is estimated to be 215 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:

$S = 0.2961$, $T = 11,922 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 110 \text{ days}$ (based on average use and reported rate),
 $Q_{\text{current}} = 300 \text{ gpm}$ (based on 2019 water use report), $tp_{\text{proposed}} = 65 \text{ days}$, $Q_{\text{proposed}} = 950 \text{ gpm}$

Theis drawdowns were calculated as follows:

22575 ID5: Drawdown from current location = 0.60 ft
Drawdown from proposed location = 2.00 ft
Net drawdown = **1.4 ft**

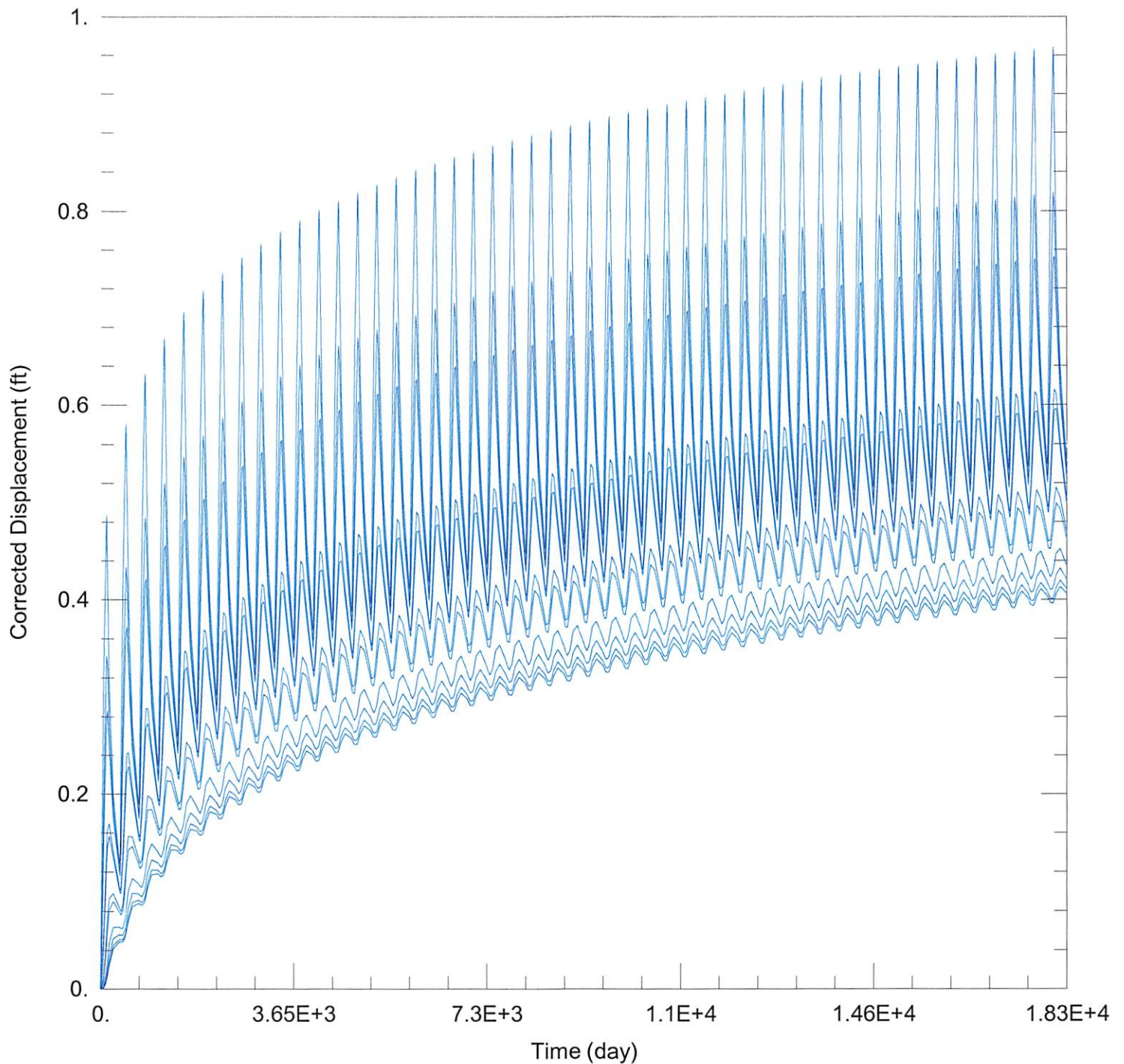
22575 ID6:	Drawdown from current location = 0.50 ft Drawdown from proposed location = 1.35 ft Net drawdown = 0.8 ft
22575 ID9:	Drawdown from current location = 0.52 ft Drawdown from proposed location = 1.22 ft Net drawdown = 0.7 ft
32073:	Drawdown from current location = 0.97 ft Drawdown from proposed location = 1.42 ft Net drawdown = 0.4 ft
29938 ID3:	Drawdown from current location = 0.62 ft Drawdown from proposed location = 1.08 ft Net drawdown = 0.5 ft
29938 ID7:	Drawdown from current location = 0.82 ft Drawdown from proposed location = 1.03 ft Net drawdown = 0.2 ft
22233:	Drawdown from current location = 0.43 ft Drawdown from proposed location = 0.93 ft Net drawdown = 0.5 ft
16157:	Drawdown from current location = 0.41 ft Drawdown from proposed location = 0.96 ft Net drawdown = 0.5 ft
Domestic 12-26-34:	Drawdown from current location = 0.75 ft Drawdown from proposed location = 1.69 ft Net drawdown = 0.9 ft
Domestic 14-26-34:	Drawdown from current location = 0.45 ft Drawdown from proposed location = 0.93 ft Net drawdown = 0.5 ft

Domestic 13-26-34: Drawdown from current location = 0.42 ft
 Drawdown from proposed location = 0.97 ft
 Net drawdown = **0.6 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\22575D1\22575 Current.aqt

Date: 05/04/23

Time: 15:49:58

PROJECT INFORMATION

Company: GMD 3

Project: 22575 D1

Location: Finney County

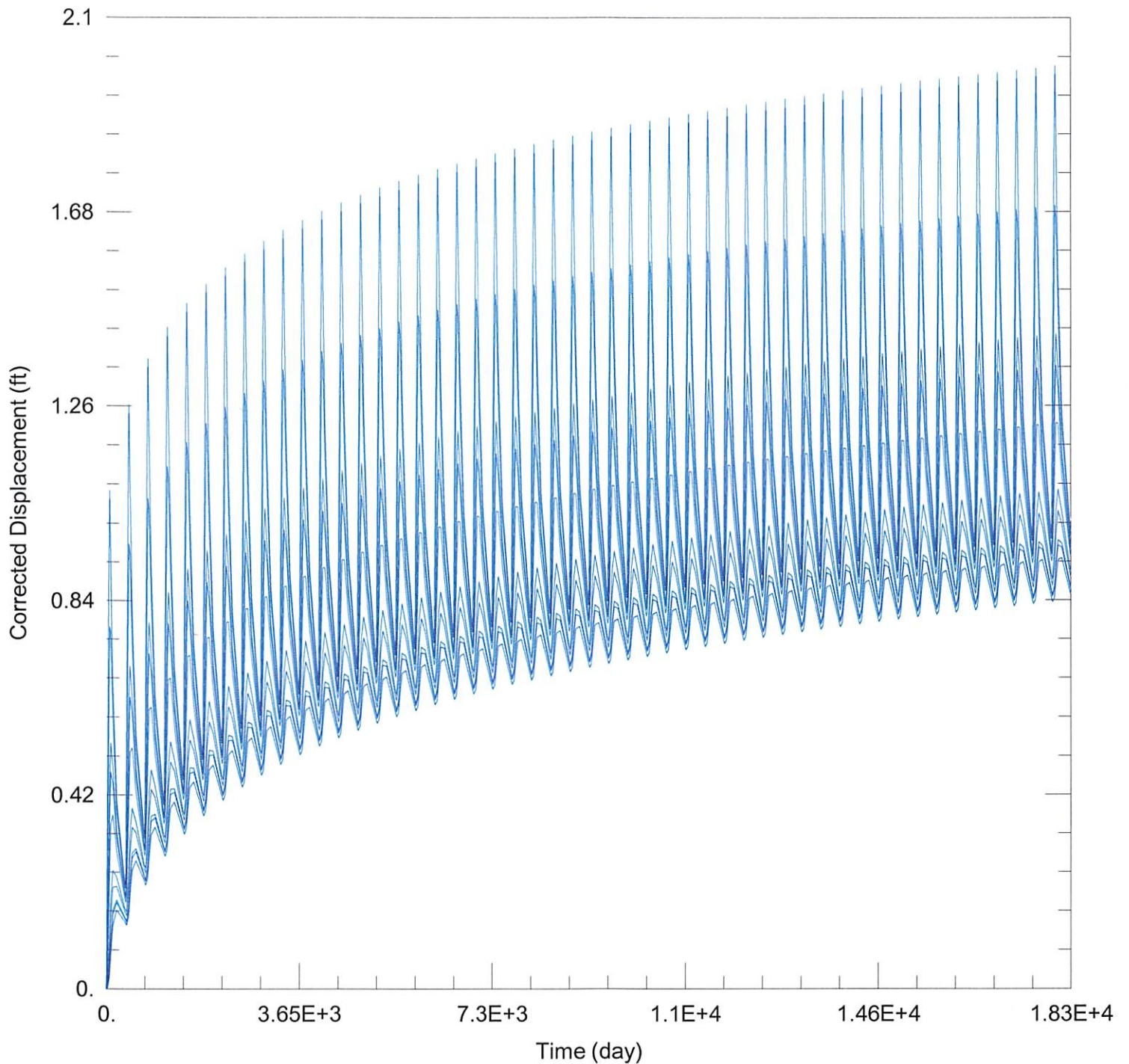
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
22575 ID8	-56907	337451

Observation Wells

Well Name	X (ft)	Y (ft)
□ 22575 ID8	-56907	337451



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\22575D1\22575 Proposed.aqt

Date: 05/04/23

Time: 15:49:52

PROJECT INFORMATION

Company: GMD 3

Project: 22575 D1

Location: Finney County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
22575 ID8	-55937	335531

Observation Wells

Well Name	X (ft)	Y (ft)
□ 22575 ID8	-55937	335531