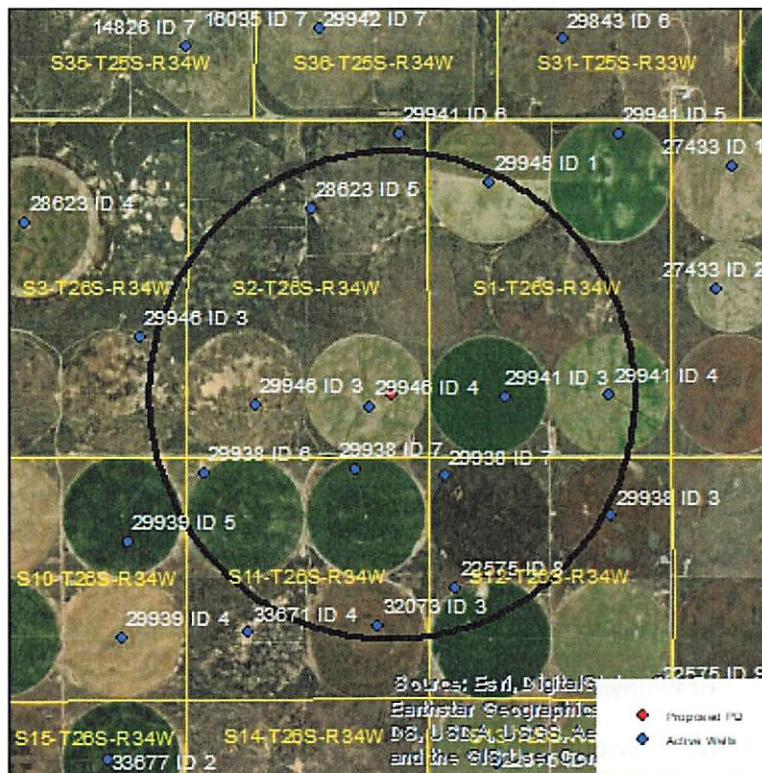


Evaluation of proposed move for Water Right No. 29946

Proposed: Move water right no. 29946 ID4 to a new well location, a distance of 535 ft to the northeast.



Wells within 1 mile: 29946 ID3, 28623, 29945, 29941 ID3, 29941 ID4, 29938 ID6, 29938 ID7 in section 11, 29938 ID7 in section 12, 32073, and 22575.

The saturated thickness at the proposed well location is estimated to be 213 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:

$S = 0.2077$, $T = 29,594 \text{ ft}^2/\text{day}$, $t_{p\text{current}} = 137 \text{ days}$ (based on average use and observed rate),
 $Q_{\text{current}} = 393 \text{ gpm}$ (based on 2019 field inspection), $t_{p\text{proposed}} = 53 \text{ days}$, $Q_{\text{proposed}} = 1162 \text{ gpm}$

Theis drawdowns were calculated as follows:

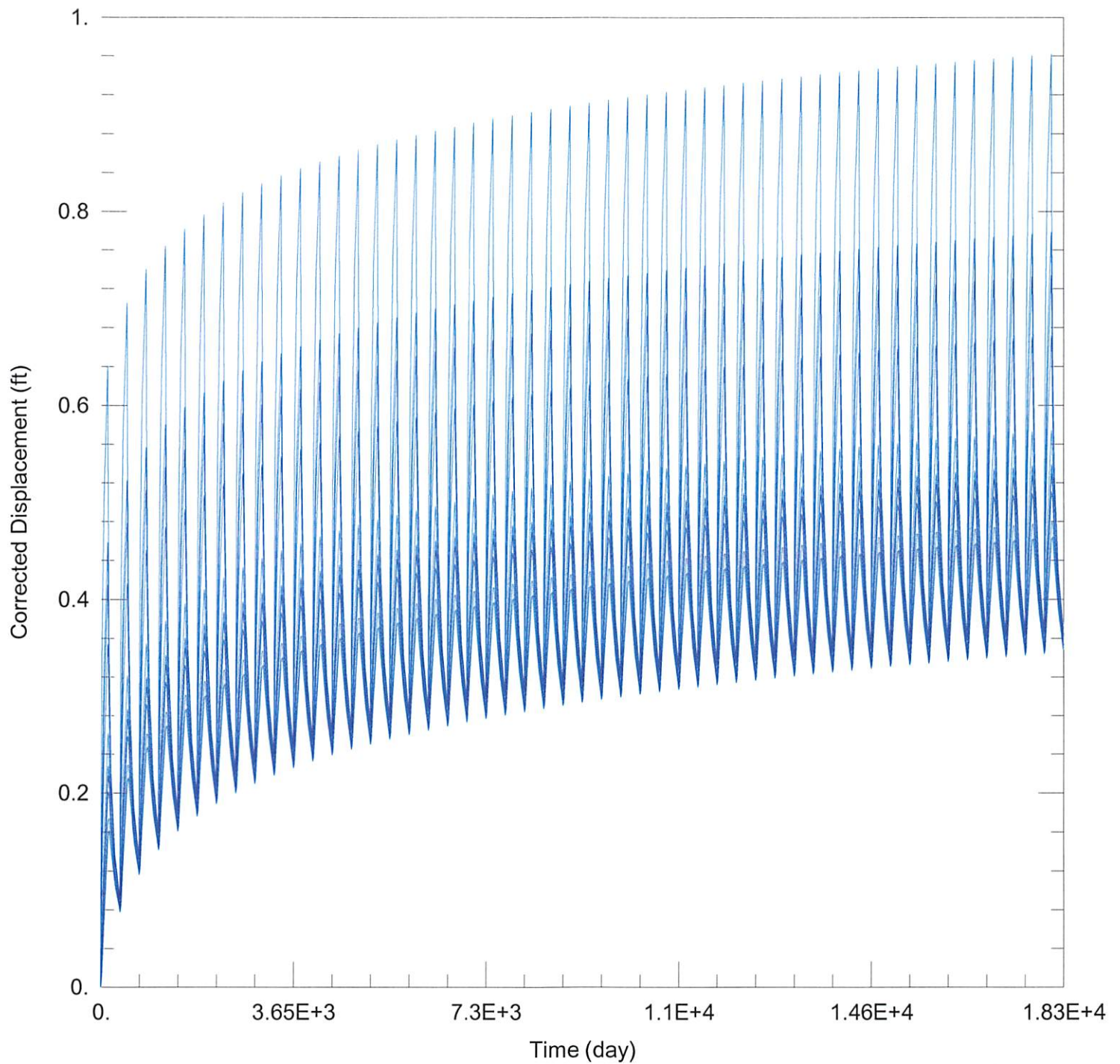
29946 ID3:	Drawdown from current location = .73 ft
	Drawdown from proposed location = .96 ft
	Net drawdown = 0.23 ft
28623:	Drawdown from current location = .53 ft
	Drawdown from proposed location = .67 ft
	Net drawdown = 0.14 ft

29945:	Drawdown from current location = 0.46 ft Drawdown from proposed location = 0.6 ft Net drawdown = 0.14 ft
29941 ID3:	Drawdown from current location = 0.67 ft Drawdown from proposed location = 1.12 ft Net drawdown = 0.44 ft
29941 ID4:	Drawdown from current location = 0.48 ft Drawdown from proposed location = 0.64 ft Net drawdown = 0.16 ft
29938 ID6:	Drawdown from current location = 0.57 ft Drawdown from proposed location = 0.67 ft Net drawdown = 0.09 ft
29938 ID7 S11:	Drawdown from current location = 0.96 ft Drawdown from proposed location = 1.44 ft Net drawdown = 0.48 ft
29938 ID7 S12:	Drawdown from current location = 0.78 ft Drawdown from proposed location = 1.27 ft Net drawdown = 0.49 ft
32073:	Drawdown from current location = 0.51 ft Drawdown from proposed location = 0.61 ft Net drawdown = 0.1 ft
22575:	Drawdown from current location = 0.54 ft Drawdown from proposed location = 0.67 ft Net drawdown = 0.13 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\29946\29946 Current.aqt

Date: 06/28/23

Time: 10:01:28

PROJECT INFORMATION

Company: GMD 3

Project: 29946 ID4

Location: Finney County

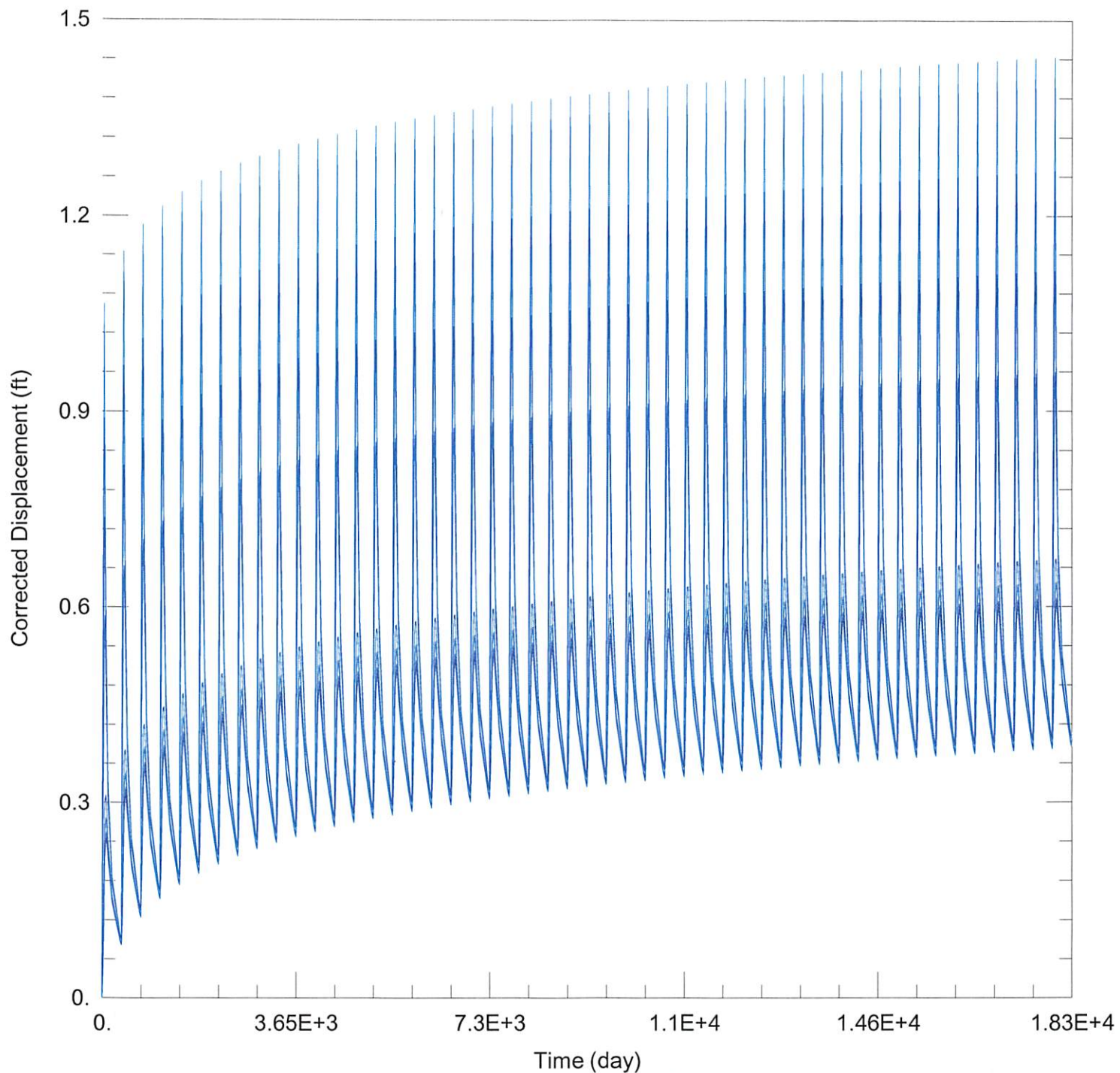
WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
29946 ID4	-58777	341362

Well Name	X (ft)	Y (ft)
□	-58777	341362



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\29946\29946 Proposed.aqt

Date: 06/28/23

Time: 10:01:21

PROJECT INFORMATION

Company: GMD 3

Project: 29946 ID4

Location: Finney County

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
29946 ID4	-58311	341624

Well Name	X (ft)	Y (ft)
□	-58311	341624