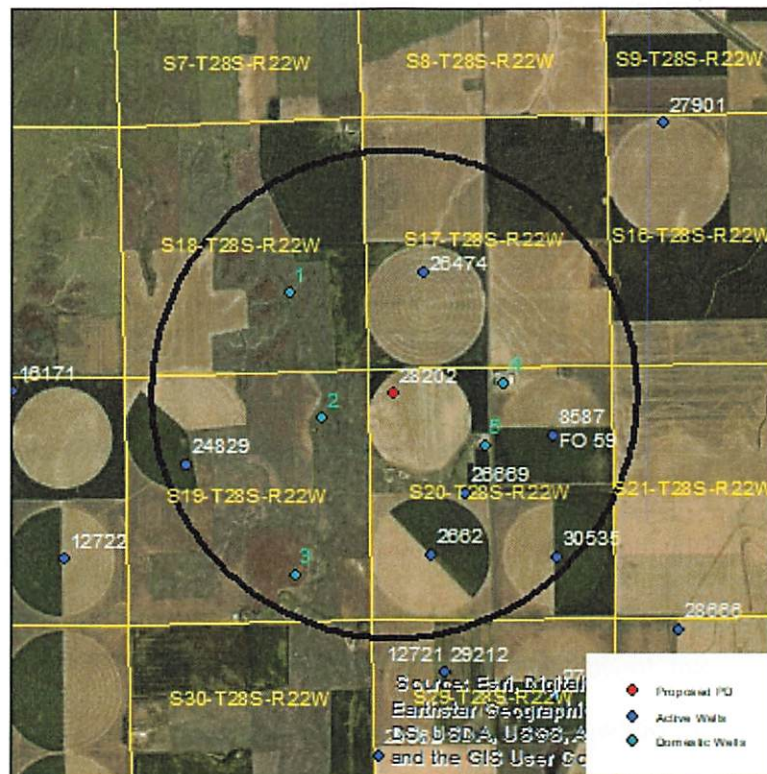


Evaluation of proposed move for Water Right Nos. 26669 and 28202

Proposed: Move water right no. 26669 to the well location currently authorized under water right no. 28202. Move water right no. 28202 to the well location currently authorized under water right no. 26669.



Wells within 1 mile: 26474, 24829, 2662, 30535, FO 59 & 8587, and five domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 38 ft, based upon the GMD3 model. For saturated thickness less than 50 ft, the drawdown allowance is 1.0 ft.

50 year Theis Analysis: The following values were used to run the analysis:

$S = 0.2336$, $T = 2039.3 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 69 \text{ days}$ (based on average use and observed rate),
 $Q_{\text{current}} = 211 \text{ gpm}$ (based on 2021 field inspection), $tp_{\text{proposed}} = 153 \text{ days}$, $Q_{\text{proposed}} = 211 \text{ gpm}$

Theis drawdowns were calculated as follows:

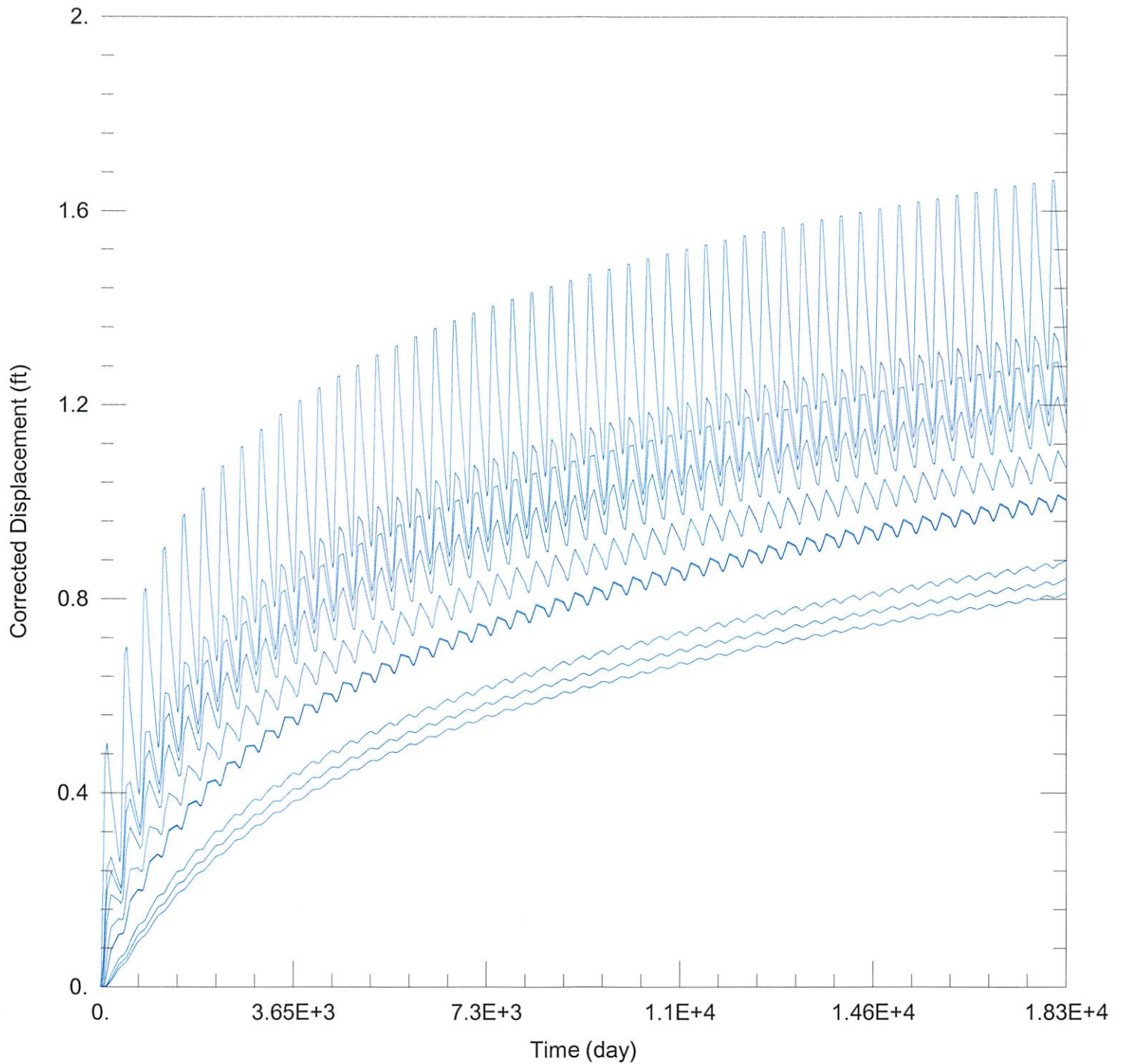
26474: Drawdown from current location = 1.22 ft
Drawdown from proposed location = 2.68 ft
Net drawdown = **1.5 ft**

24829:	Drawdown from current location = 0.84 ft Drawdown from proposed location = 1.86 ft Net drawdown = 1.0 ft
2662:	Drawdown from current location = 1.01 ft Drawdown from proposed location = 2.25 ft Net drawdown = 1.2 ft
30535:	Drawdown from current location = 0.81 ft Drawdown from proposed location = 1.80 ft Net drawdown = 1.0 ft
FO 59 & 8587:	Drawdown from current location = 1.02 ft Drawdown from proposed location = 2.25 ft Net drawdown = 1.2 ft
Domestic 1:	Drawdown from current location = 1.11 ft Drawdown from proposed location = 2.44 ft Net drawdown = 1.3 ft
Domestic 2:	Drawdown from current location = 1.66 ft Drawdown from proposed location = 3.60 ft Net drawdown = 1.9 ft
Domestic 3:	Drawdown from current location = 0.88 ft Drawdown from proposed location = 1.95 ft Net drawdown = 1.1 ft
Domestic 4:	Drawdown from current location = 1.29 ft Drawdown from proposed location = 2.86 ft Net drawdown = 1.6 ft
Domestic 5:	Drawdown from current location = 1.35 ft Drawdown from proposed location = 2.97 ft Net drawdown = 1.6 ft

Net drawdown exceeds the drawdown allowance of 1.0 ft for water right numbers 26474, 2662, and FO 59 & 8587, as well as for each of the domestic wells. Each of the neighboring certified water rights are considered critical due to having less than 60 ft of saturated thickness remaining.

Conclusion:

If the well in the northwest corner of the section is to be pumped at the full quantity authorized under water right no. 26669, additional effects on most neighboring wells will be a little more than 1 ft. Generally, this is considered a very small effect, but since this area has less than 50 ft of remaining saturated thickness, this effect is considered noticeable by GMD3 analysis. 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\26669_28202\26669 & 28202.aqt

Date: 02/13/23

Time: 15:04:54

PROJECT INFORMATION

Company: GMD 3

Project: 26669 & 28202

Location: Ford County

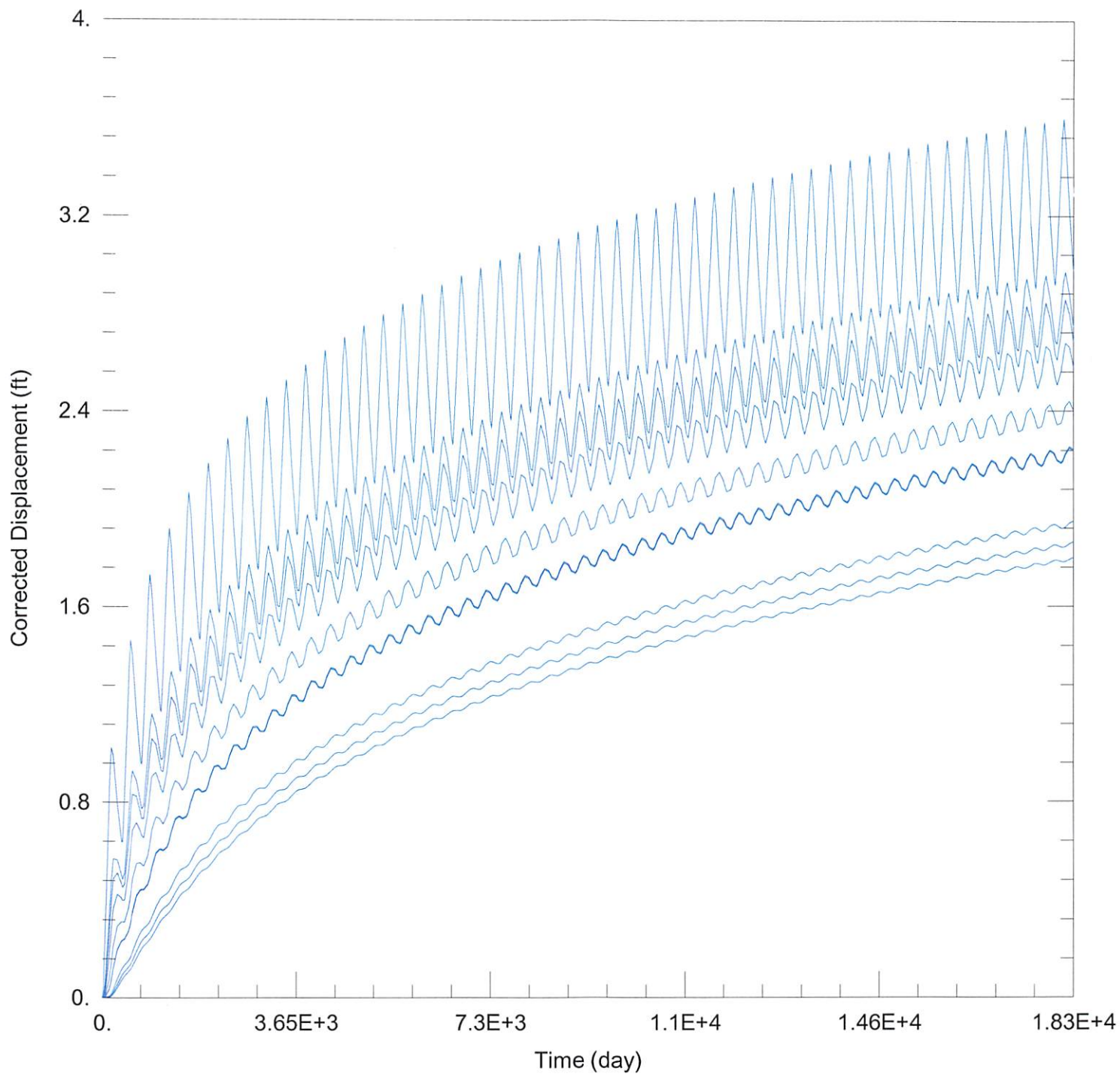
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
28202	302224	265553

Observation Wells

Well Name	X (ft)	Y (ft)
□	302224	265553



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\26669_28202\26669 & 28202 Proposed.aqt
 Date: 02/13/23 Time: 15:04:45

PROJECT INFORMATION

Company: GMD 3
 Project: 26669 & 28202
 Location: Ford County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
28202	302224	265553

Observation Wells

Well Name	X (ft)	Y (ft)
□	302224	265553