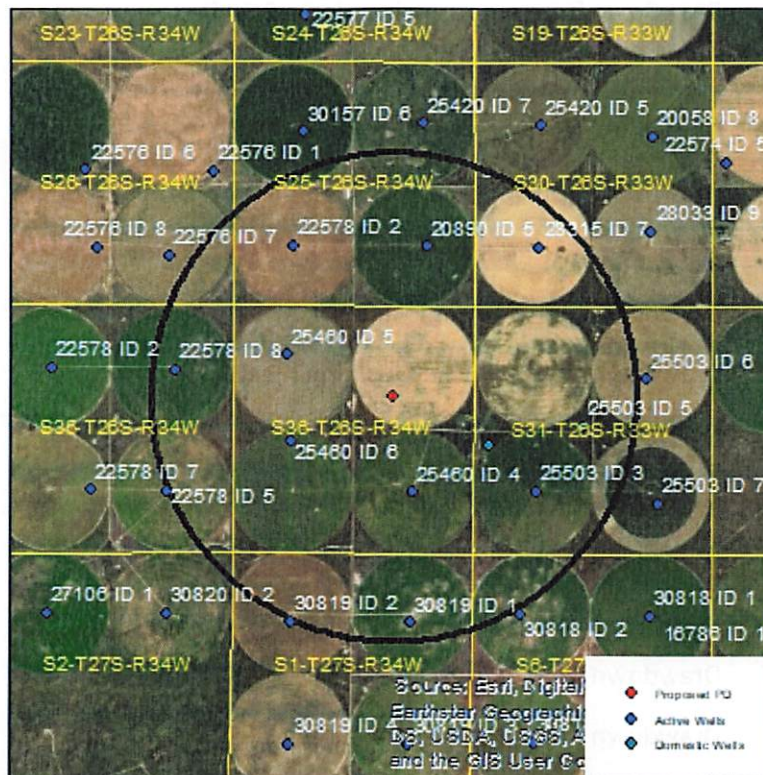


## Evaluation of proposed move for Water Right No. 25460

Proposed: Split portions of water right nos. 25460 ID4, 25460 ID5, and 25460 ID6 to a new well location, indicated by the red dot on the map below. Authorized rate and quantity on 25460 ID4 will be reduced from 260 AF @ 905 gpm to 130 AF @ 500 gpm. Authorized rate and quantity on 25460 ID5 will be reduced from 400 AF @ 895 gpm to 260 AF @ 635 gpm. Authorized rate and quantity on 25460 ID6 will be reduced from 380 AF @ 790 gpm to 350 AF @ 785 gpm. The proposed point of diversion will be authorized 300 AF @ 670 gpm.



Wells within 1 mile: 22578 ID2, 22578 ID8, 20890, 28315, 25503 ID3, 25503 ID5, 30819 ID1, and a domestic well in section 31-26-33.

The saturated thickness at the proposed well location is estimated to be 204 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:

$S = 0.2647$ ,  $T = 30,250 \text{ ft}^2/\text{day}$ ,

25460 ID4:  $tp_{\text{current}} = 95 \text{ days}$ ,  $Q_{\text{current}} = 476 \text{ gpm}$ ,  $tp_{\text{proposed}} = 62 \text{ days}$ ,  $Q_{\text{proposed}} = 476 \text{ gpm}$

25460 ID5:  $tp_{\text{current}} = 120 \text{ days}$ ,  $Q_{\text{current}} = 690 \text{ gpm}$ ,  $tp_{\text{proposed}} = 93 \text{ days}$ ,  $Q_{\text{proposed}} = 635 \text{ gpm}$

25460 ID6:  $tp_{\text{current}} = 120 \text{ days}$ ,  $Q_{\text{current}} = 491 \text{ gpm}$ ,  $tp_{\text{proposed}} = 161 \text{ days}$ ,  $Q_{\text{proposed}} = 491 \text{ gpm}$

Proposed PD:  $tp_{\text{proposed}} = 101 \text{ days}$ ,  $Q_{\text{proposed}} = 670 \text{ gpm}$

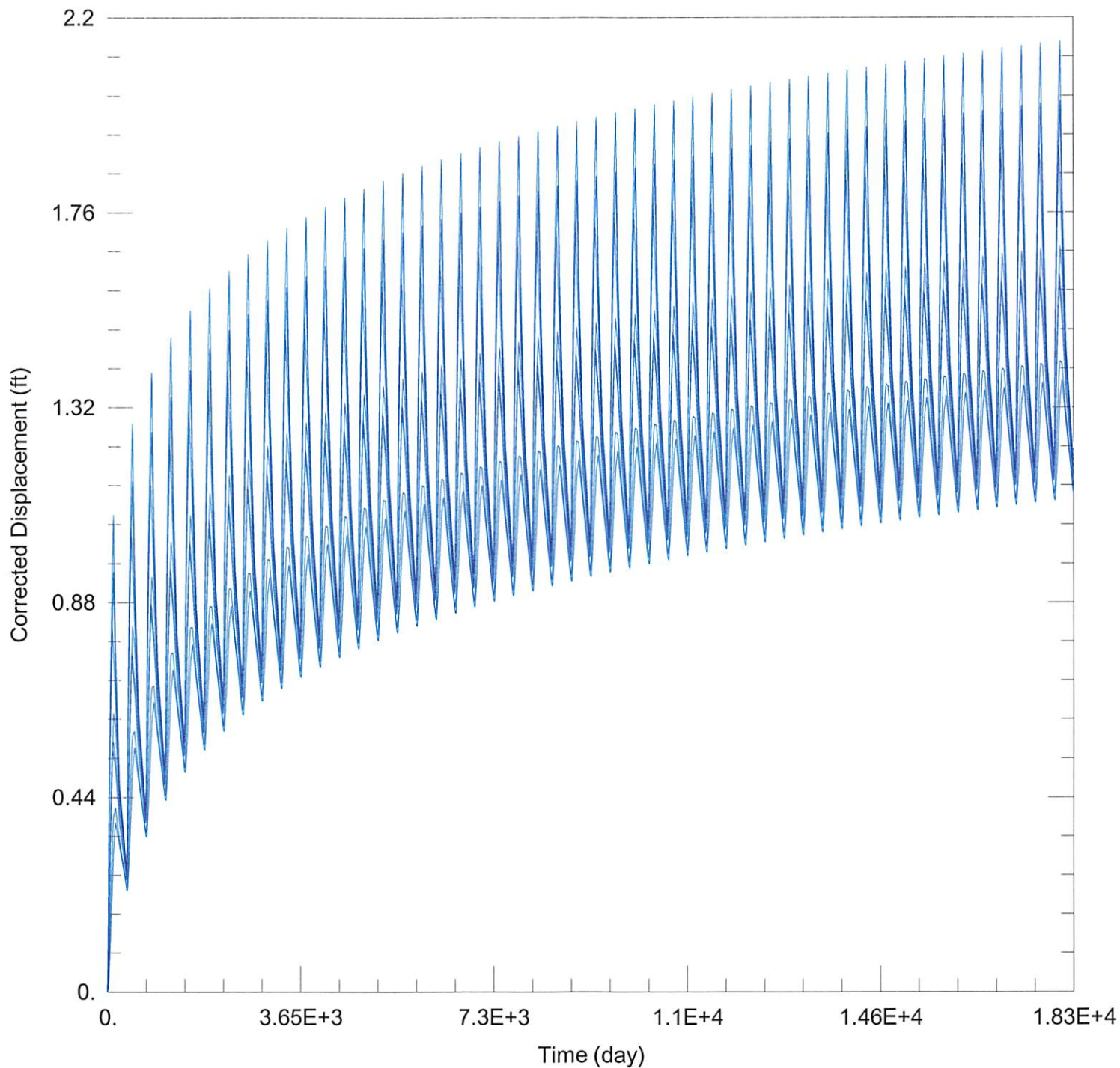
Theis drawdowns were calculated as follows:

22578 ID2:	Drawdown from current location = 2.01ft Drawdown from proposed location = 2.35 ft Net drawdown = <b>0.3 ft</b>
22578 ID8:	Drawdown from current location = 2.15 ft Drawdown from proposed location = 2.39 ft Net drawdown = <b>0.2 ft</b>
20890:	Drawdown from current location = 1.68 ft Drawdown from proposed location = 2.16 ft Net drawdown = <b>0.5 ft</b>
28315:	Drawdown from current location = 1.38 ft Drawdown from proposed location = 1.81 ft Net drawdown = <b>0.4 ft</b>
25503 ID3:	Drawdown from current location = 1.60 ft Drawdown from proposed location = 2.02 ft Net drawdown = <b>0.4 ft</b>
25503 ID5:	Drawdown from current location = 1.42 ft Drawdown from proposed location = 1.88 ft Net drawdown = <b>0.5 ft</b>
30819 ID1:	Drawdown from current location = 1.62 ft Drawdown from proposed location = 1.96 ft Net drawdown = <b>0.3 ft</b>
Domestic 31-26-33:	Drawdown from current location = 1.91 ft Drawdown from proposed location = 2.48 ft Net drawdown = <b>0.6 ft</b>

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\25460\25460 Current.aqt

Date: 05/09/23

Time: 15:02:51

### PROJECT INFORMATION

Company: GMD 3

Project: 25460

Location: Finney County

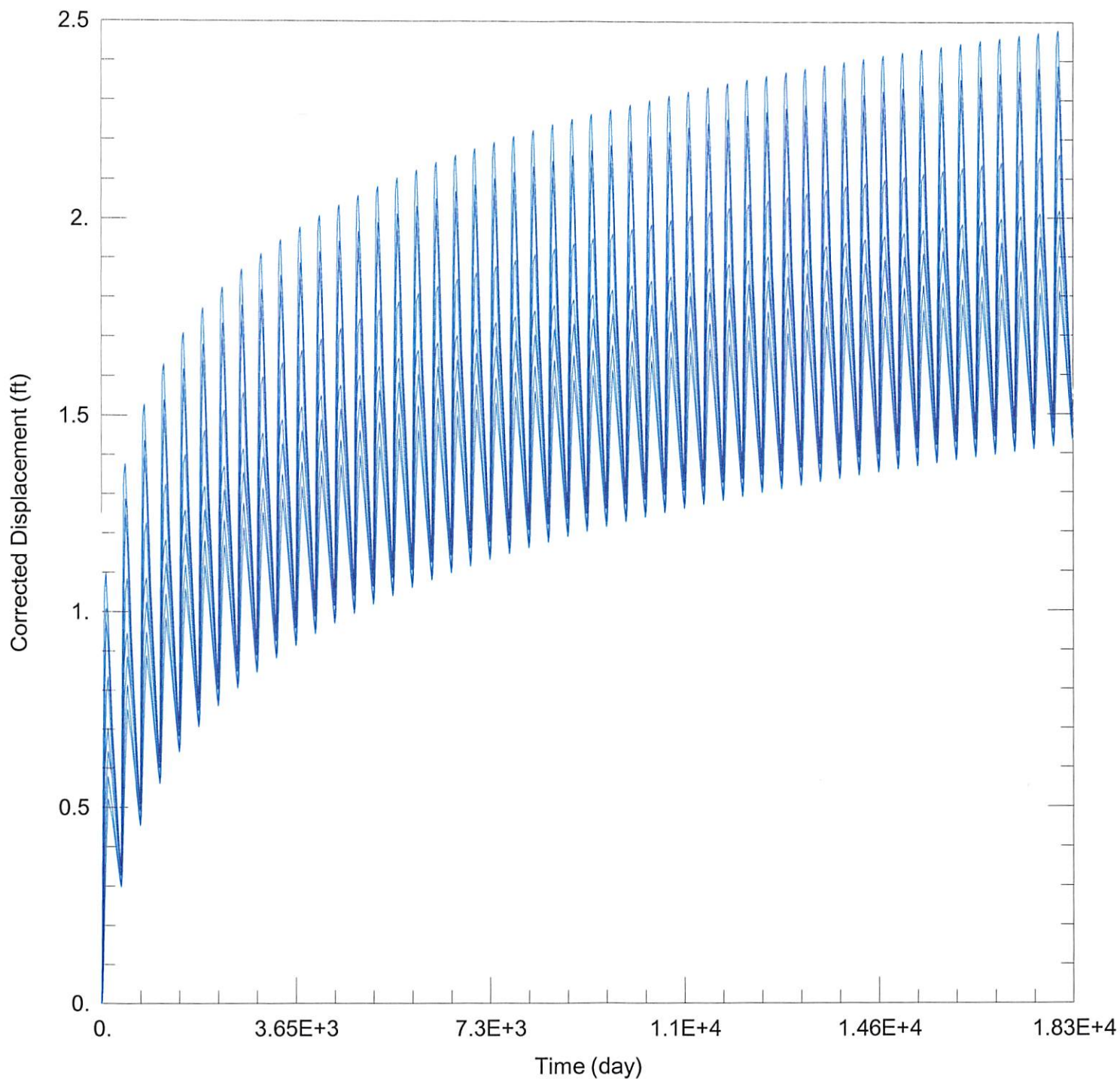
### WELL DATA

#### Pumping Wells

#### Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
25460 ID4	-53582	315169	□	-53582	315169





### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023\_moves\25460\25460 Proposed.aqt

Date: 05/09/23

Time: 15:02:44

### PROJECT INFORMATION

Company: GMD 3

Project: 25460

Location: Finney County

### WELL DATA

#### Pumping Wells

#### Observation Wells

Well Name	X (ft)	Y (ft)
<u>25460 ID4</u>	<u>-53582</u>	<u>315169</u>

Well Name	X (ft)	Y (ft)
<u>□</u>	<u>-53582</u>	<u>315169</u>