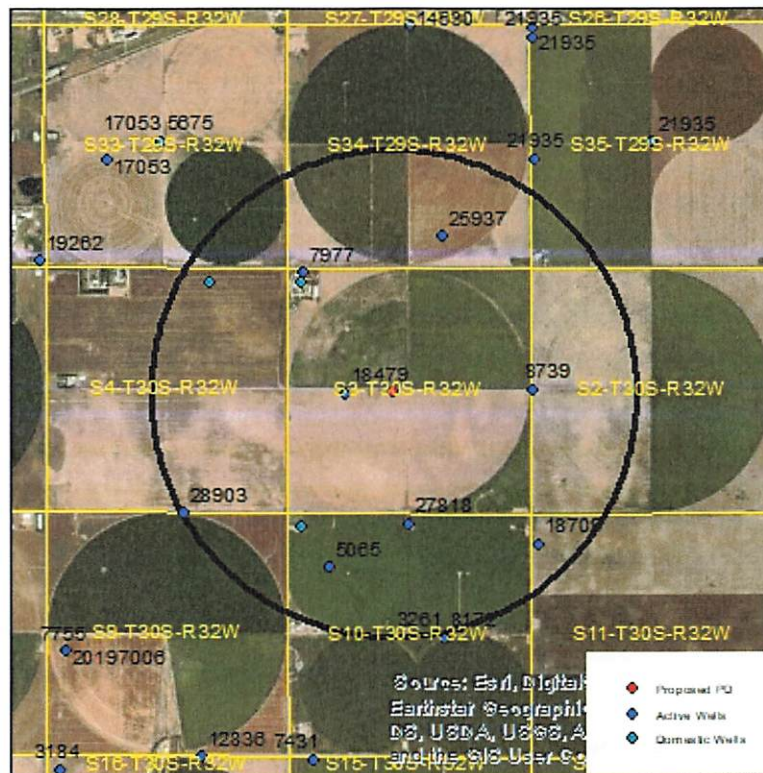


## Evaluation of proposed move for Water Right No. 18479

Proposed: Move water right no. 18479 to a new well location, a distance of 1,040 ft to the east.



Wells within 1 mile: 25937, 7977, 8739, 28903, 5065, 27818, 18709, a domestic well in section 4-30-32, a domestic well in section 3-30-32, and a domestic well in section 10-30-32.

The saturated thickness at the proposed well location is estimated to be 180 ft, based upon the GMD3 model. For saturated thickness between 150 ft and 200 ft, the drawdown allowance is 3.5 ft.

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

$S = 0.2397$ ,  $T = 12,9597 \text{ ft}^2/\text{day}$ ,  $tp_{\text{current}} = 43 \text{ days}$  (based on average use and reported rate),  
 $Q_{\text{current}} = 500 \text{ gpm}$  (based on 2015 water use report),  $tp_{\text{proposed}} = 117 \text{ days}$ ,  $Q_{\text{proposed}} = 1240 \text{ gpm}$

Theis drawdowns were calculated as follows:

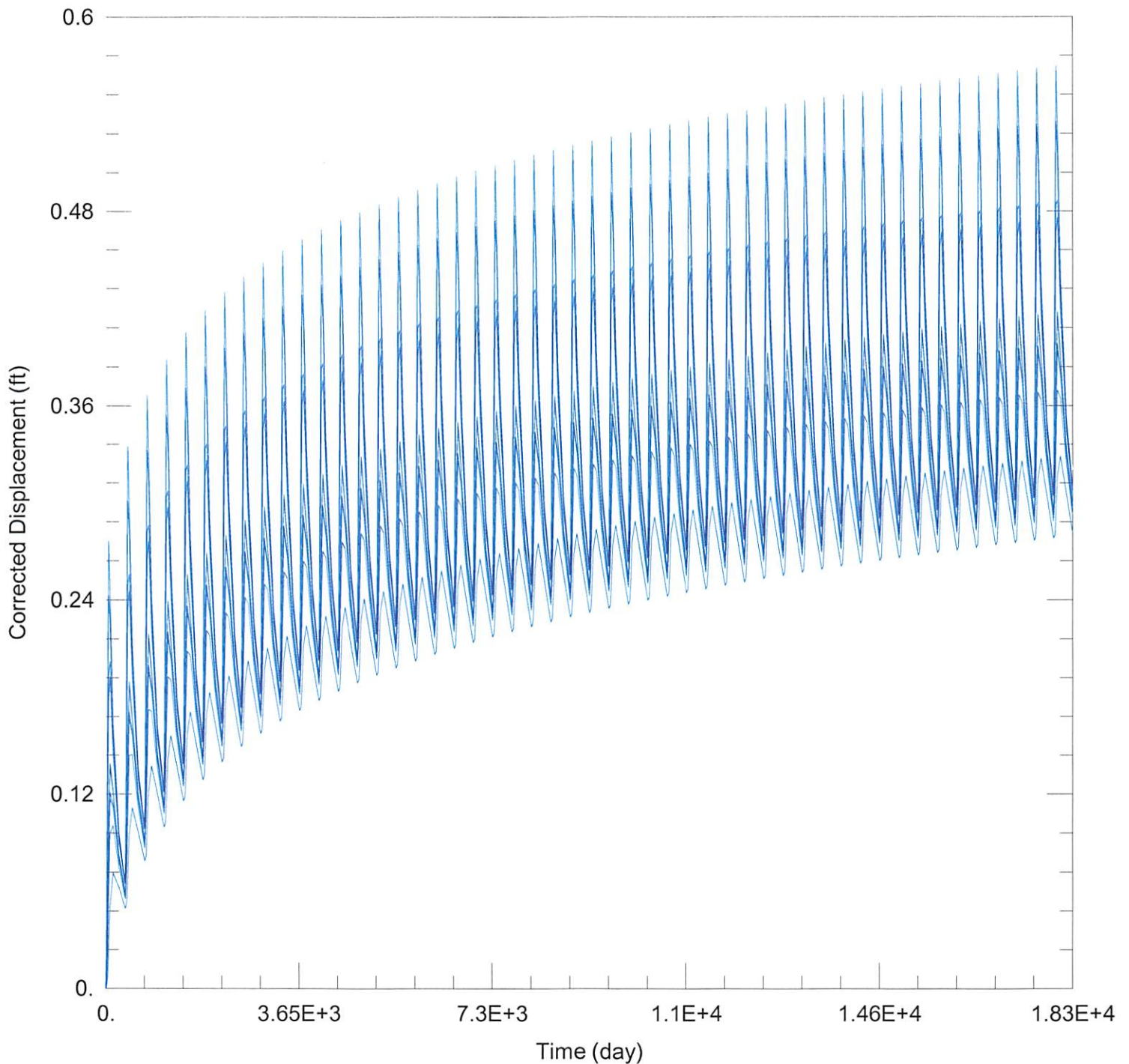
25937:	Drawdown from current location = 0.40 ft
	Drawdown from proposed location = 2.80 ft
	Net drawdown = <b>2.4 ft</b>
7977:	Drawdown from current location = 0.54 ft
	Drawdown from proposed location = 2.98 ft
	Net drawdown = <b>2.4 ft</b>

8739:	Drawdown from current location = 0.39 ft Drawdown from proposed location = 3.14 ft Net drawdown = <b>2.7 ft</b>
28903:	Drawdown from current location = 0.37 ft Drawdown from proposed location = 2.19 ft Net drawdown = <b>1.8 ft</b>
5065:	Drawdown from current location = 0.42 ft Drawdown from proposed location = 2.61 ft Net drawdown = <b>2.2 ft</b>
27818:	Drawdown from current location = 0.48 ft Drawdown from proposed location = 3.25 ft Net drawdown = <b>2.8 ft</b>
18709:	Drawdown from current location = 0.33 ft Drawdown from proposed location = 2.42 ft Net drawdown = <b>2.1 ft</b>
Domestic 4-30-32:	Drawdown from current location = 0.41 ft Drawdown from proposed location = 2.38 ft Net drawdown = <b>2.0 ft</b>
Domestic 3-30-32:	Drawdown from current location = 0.57 ft Drawdown from proposed location = 3.06 ft Net drawdown = <b>2.5 ft</b>
Domestic 10-30-32:	Drawdown from current location = 0.49 ft Drawdown from proposed location = 2.82 ft Net drawdown = <b>2.3 ft</b>

Net drawdown does not exceed the drawdown allowance of 3.5 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\18479\18479 Current.aqt

Date: 08/02/22

Time: 10:43:08

### PROJECT INFORMATION

Company: GMD 3

Project: 18479

Location: Haskell County

### WELL DATA

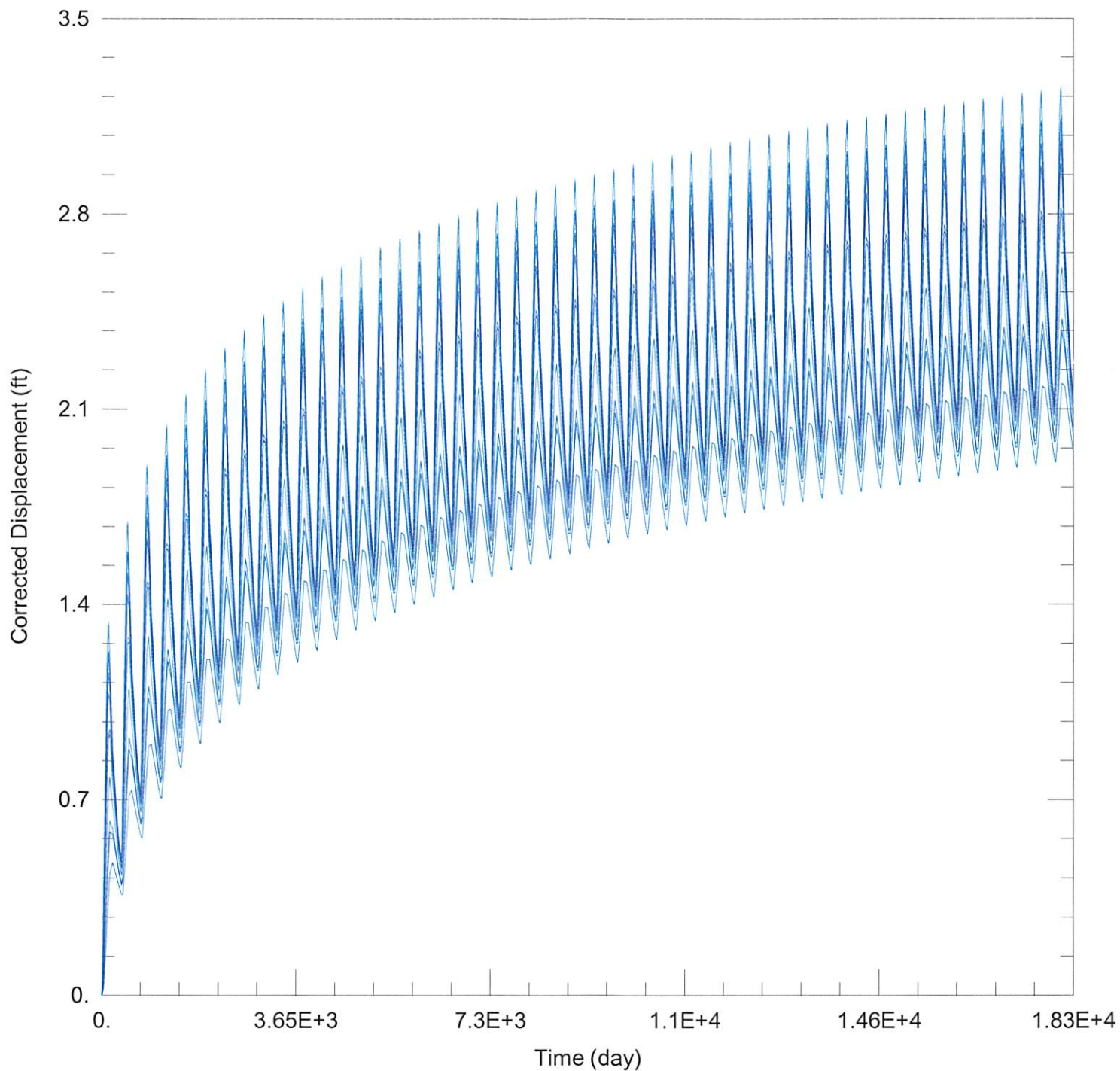
#### Pumping Wells

Well Name	X (ft)	Y (ft)
18479	-3644	215676

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	-3644	215676





### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022\_moves\18479\18479 Proposed.aqt

Date: 08/02/22

Time: 10:42:59

### PROJECT INFORMATION

Company: GMD 3

Project: 18479

Location: Haskell County

### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
18479	-2604	215685

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	-2604	215685