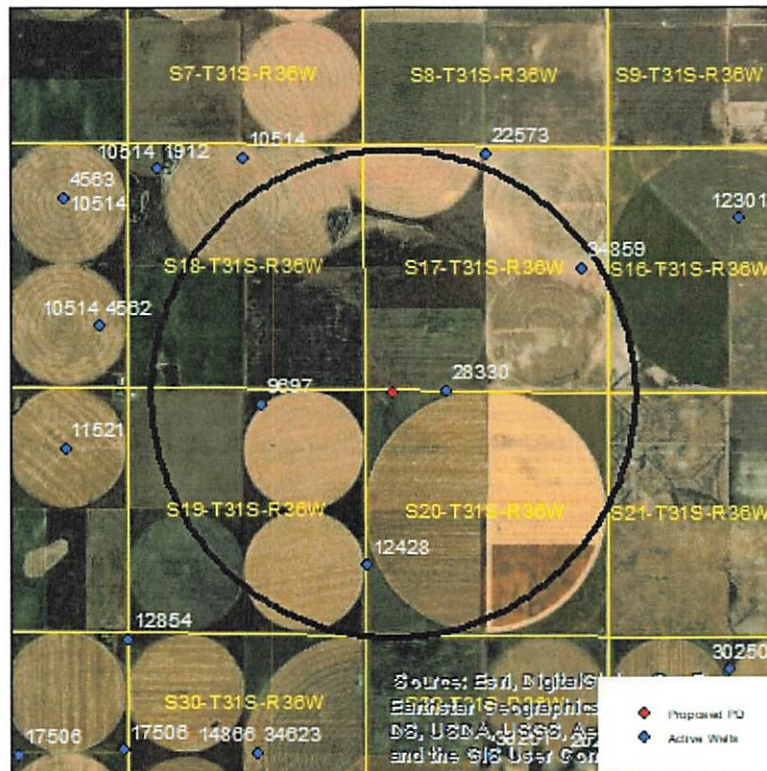


## Evaluation of proposed move for Water Right No. 28330

Proposed: Move water right no. 28330 to a new well location, a distance of 1,161 ft to the west.



Wells within 1 mile: 34859, 9697, and 12428.

The saturated thickness at the proposed well location is estimated to be 211 ft, based upon driller's log and an observation well in section 13-31-37. 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 (note S and T values were estimated from the driller's log, not the GMD3 model):

$S = 0.2539$ ,  $T = 9414.5 \text{ ft}^2/\text{day}$ ,  $tp_{\text{current}} = 102 \text{ days}$  (based on average use and observed rate),  
 $Q_{\text{current}} = 925 \text{ gpm}$  (based on 2020 field inspection),  $tp_{\text{proposed}} = 127 \text{ days}$ ,  $Q_{\text{proposed}} = 1400 \text{ gpm}$

Theis drawdowns were calculated as follows:

34859:	Drawdown from current location = 2.09 ft
	Drawdown from proposed location = 3.43 ft
	Net drawdown = <b>1.3 ft</b>
9697:	Drawdown from current location = 2.08 ft
	Drawdown from proposed location = 3.43 ft
	Net drawdown = <b>2.7 ft</b>

12428:

Drawdown from current location = 2.04 ft

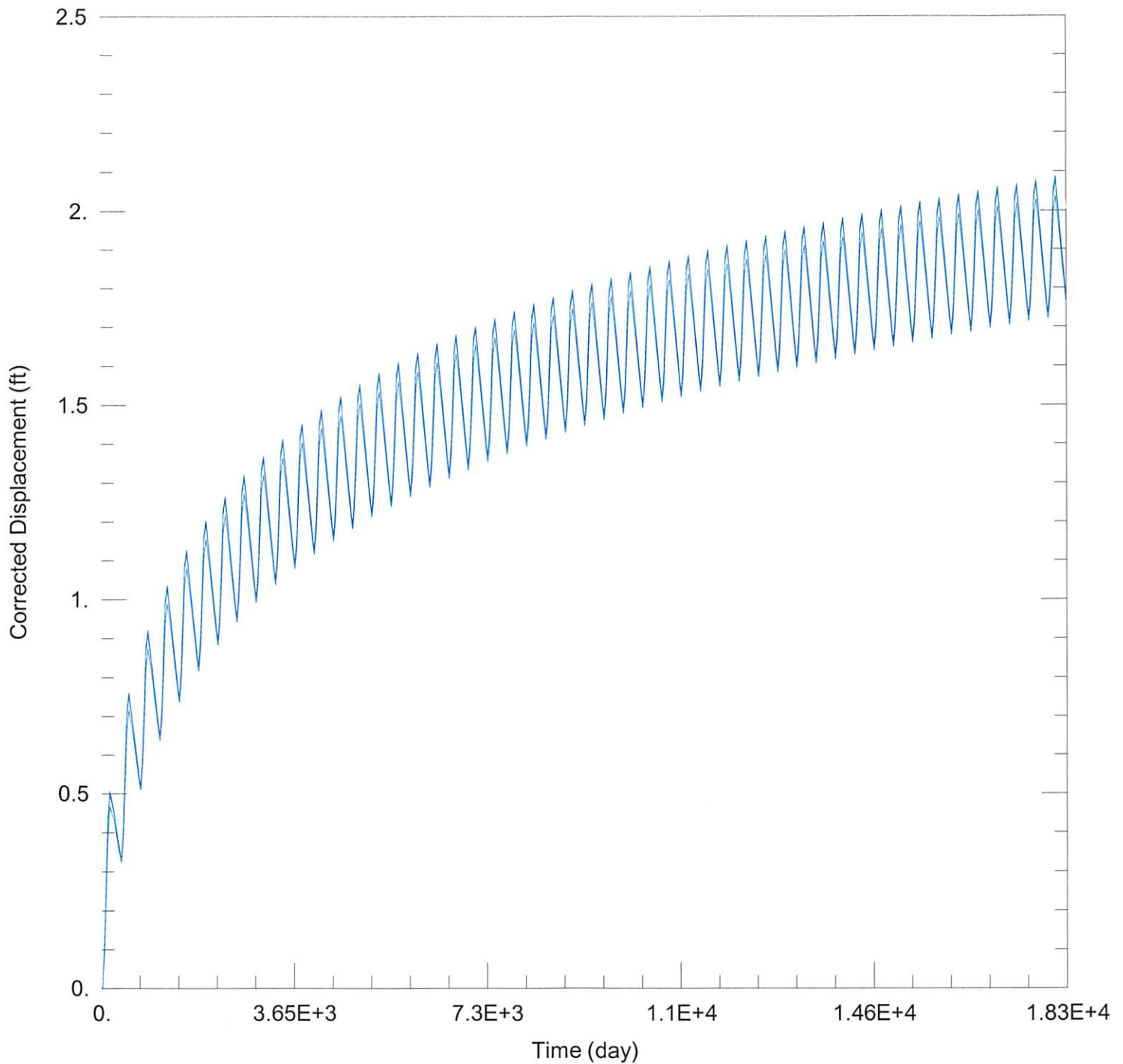
Drawdown from proposed location = 4.02 ft

Net drawdown = **2.0 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\2022\_moves\28330\28330 Current.aqt

Date: 11/10/22

Time: 15:42:08

### PROJECT INFORMATION

Company: GMD 3

Project: 28330

Location: Stevens County

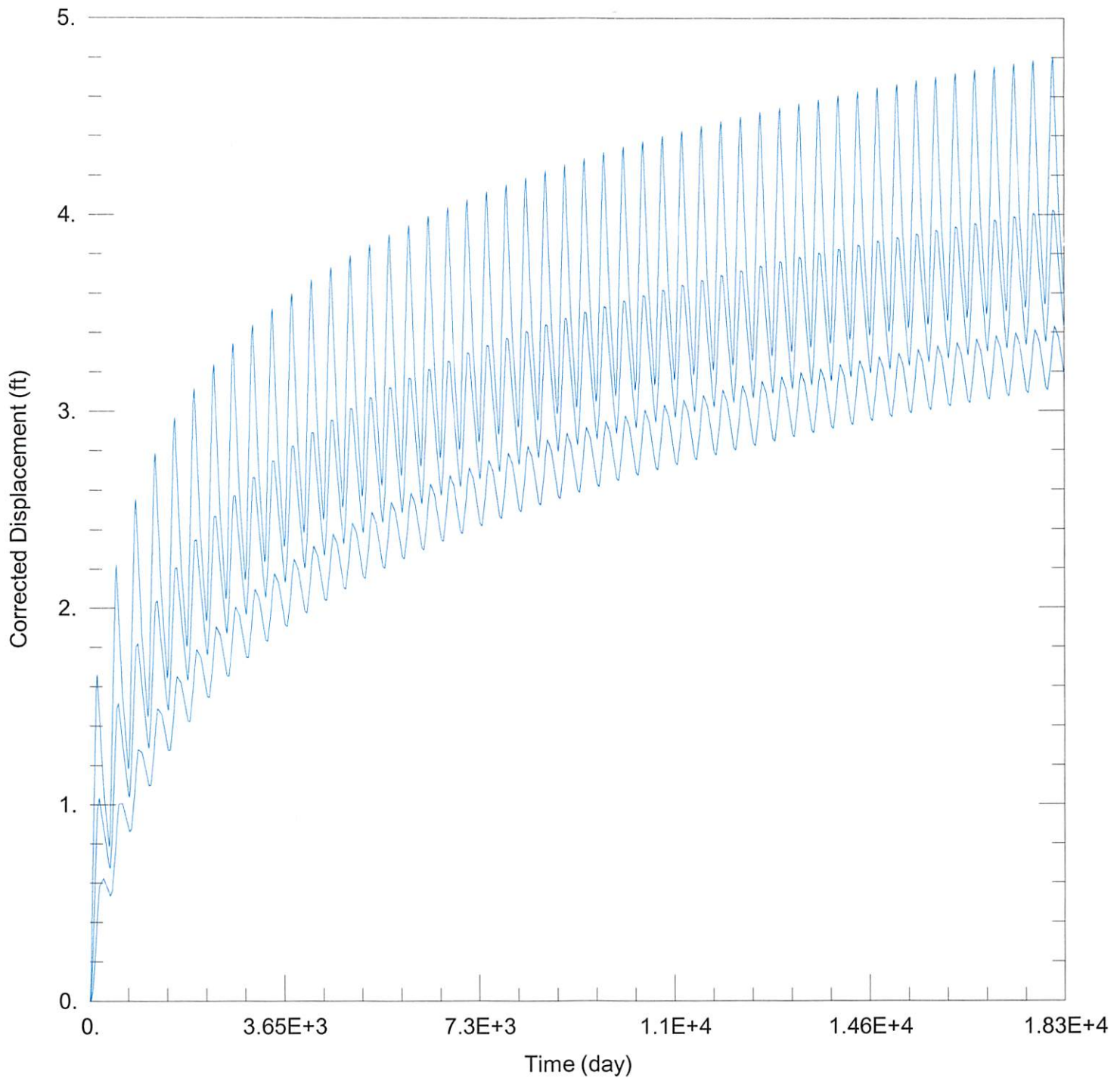
### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
28330	-134175	171156

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	-134175	171156



### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022\_moves\28330\28330 Proposed.aqt

Date: 11/10/22

Time: 15:42:01

### PROJECT INFORMATION

Company: GMD 3

Project: 28330

Location: Stevens County

### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
28330	-135336	171107

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	-135336	171107