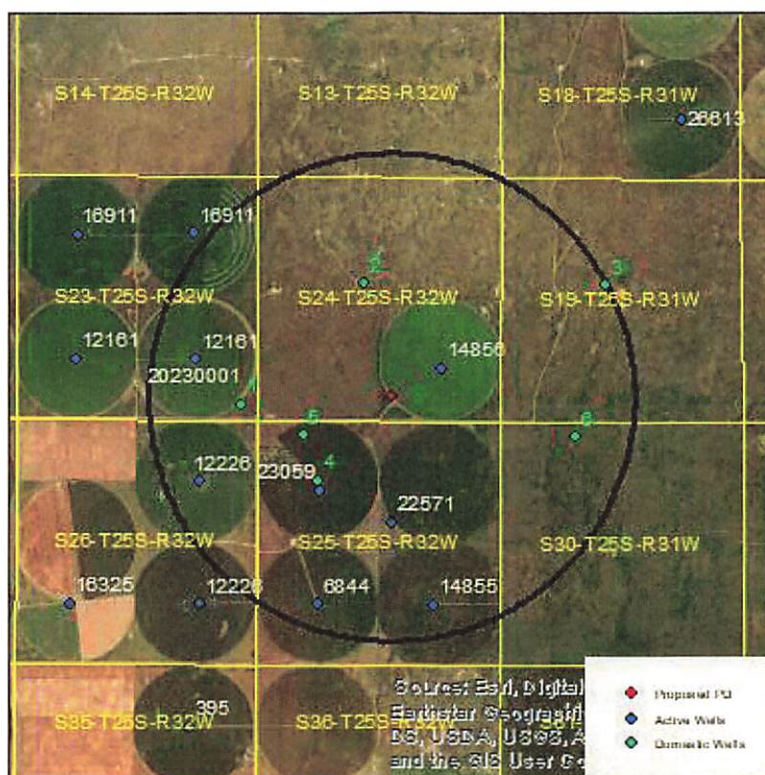


## Evaluation of proposed move for Water Right No. 14856

Proposed: Move water right no. 14856 to a new well location, a distance of 1,261 ft to the southwest.



Wells within 1 mile: 12161, 12226, 23059, 6844, 22571, 14855, and six domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 153 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:

$S = 0.2079$ ,  $T = 5165 \text{ ft}^2/\text{day}$ ,  $t_{p\text{current}} = 200 \text{ days}$  (based on average use and observed rate),  
 $Q_{\text{current}} = 218 \text{ gpm}$  (based on 2022 field inspection),  $t_{p\text{proposed}} = 61 \text{ days}$ ,  $Q_{\text{proposed}} = 935 \text{ gpm}$

Theis drawdowns were calculated as follows:

12161: Drawdown from current location = 1.29 ft  
Drawdown from proposed location = 1.94 ft  
Net drawdown = **0.6 ft**

12226: Drawdown from current location = 1.23 ft  
Drawdown from proposed location = 1.88 ft  
Net drawdown = **0.7 ft**

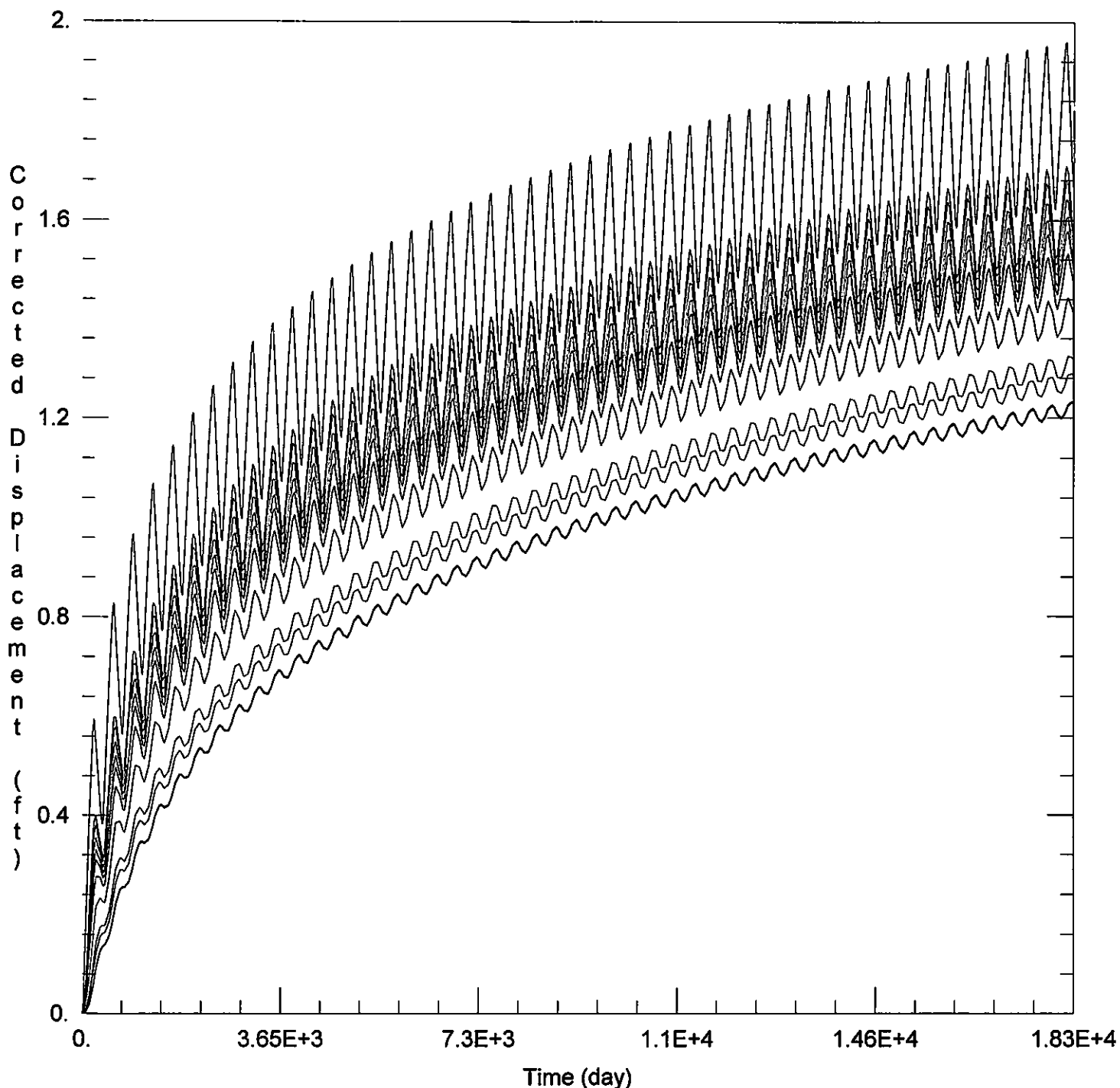
23059:	Drawdown from current location = 1.58 ft Drawdown from proposed location = 2.73 ft Net drawdown = <b>1.1 ft</b>
6844:	Drawdown from current location = 1.23 ft Drawdown from proposed location = 1.83 ft Net drawdown = <b>0.6 ft</b>
22571:	Drawdown from current location = 1.64 ft Drawdown from proposed location = 2.61 ft Net drawdown = <b>1.0 ft</b>
14855:	Drawdown from current location = 1.32 ft Drawdown from proposed location = 1.87 ft Net drawdown = <b>0.5 ft</b>
Domestic 1:	Drawdown from current location = 1.44 ft Drawdown from proposed location = 2.33 ft Net drawdown = <b>0.9 ft</b>
Domestic 2:	Drawdown from current location = 1.96 ft Drawdown from proposed location = 2.77 ft Net drawdown = <b>0.8 ft</b>
Domestic 3:	Drawdown from current location = 1.53 ft Drawdown from proposed location = 1.73 ft Net drawdown = <b>0.2 ft</b>
Domestic 4:	Drawdown from current location = 1.61 ft Drawdown from proposed location = 2.86 ft Net drawdown = <b>1.3 ft</b>
Domestic 5:	Drawdown from current location = 1.68 ft Drawdown from proposed location = 3.21 ft Net drawdown = <b>1.5 ft</b>

Domestic 6:                      Drawdown from current location = 1.71 ft  
   Drawdown from proposed location = 1.99 ft  
   Net drawdown = **0.3 ft**

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\2023\_moves\14856\14856 Current.aqt

Date: 09/21/23

Time: 14:34:36

### PROJECT INFORMATION

Company: GMD 3

Project: 14856

Location: Finney County

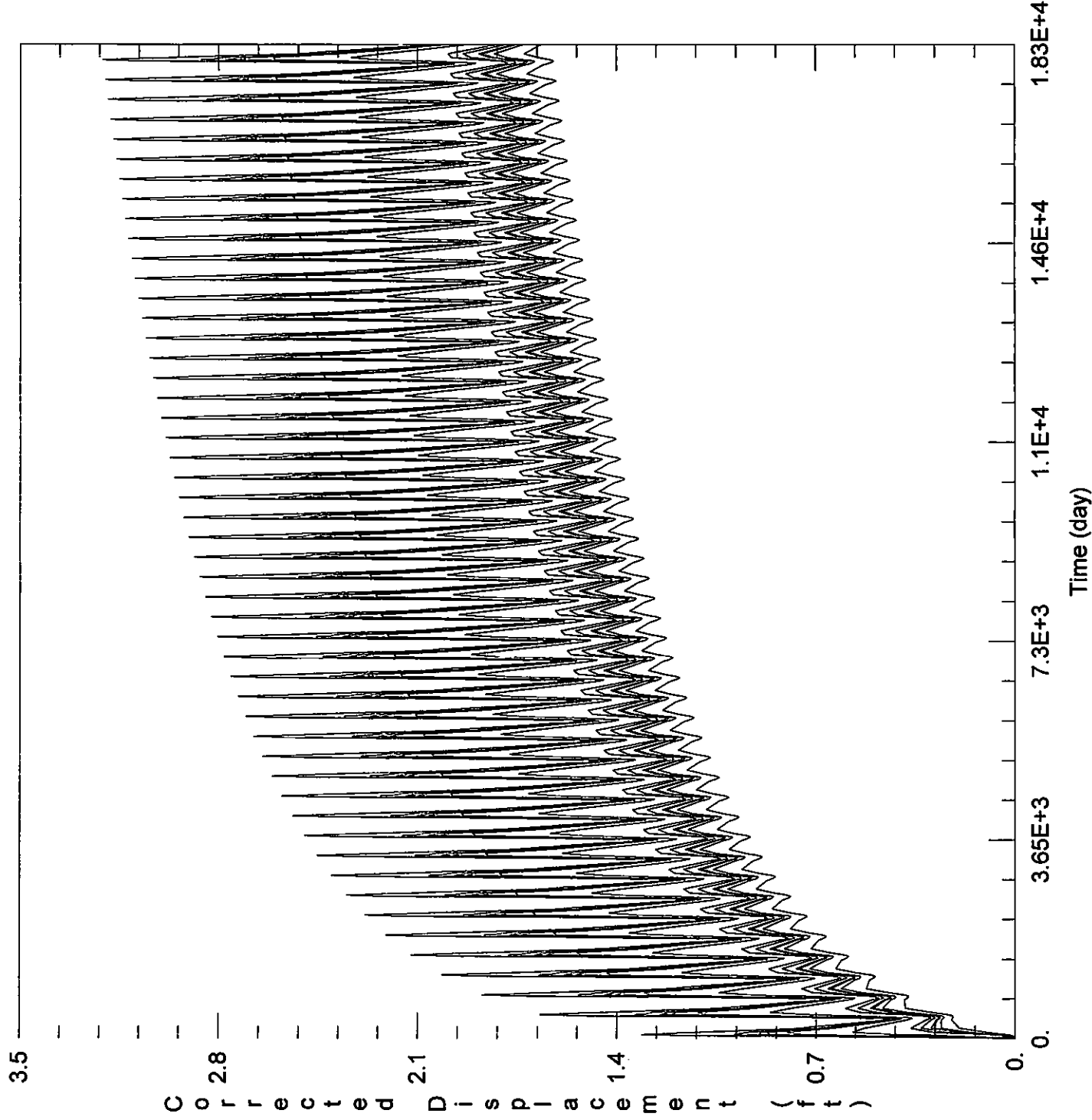
### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
14856	6018	359171

#### Observation Wells

Well Name	X (ft)	Y (ft)
12161	677	350382



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023\_moves\14856\14856 Proposed.agt

Date: 09/21/23 Time: 14:34:29

PROJECT INFORMATION

Company: GMD 3

Project: 14856

Location: Finney County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
14856	4911	358568

Observation Wells

Well Name	X (ft)	Y (ft)
12161	4911	358568
12162	677	350382