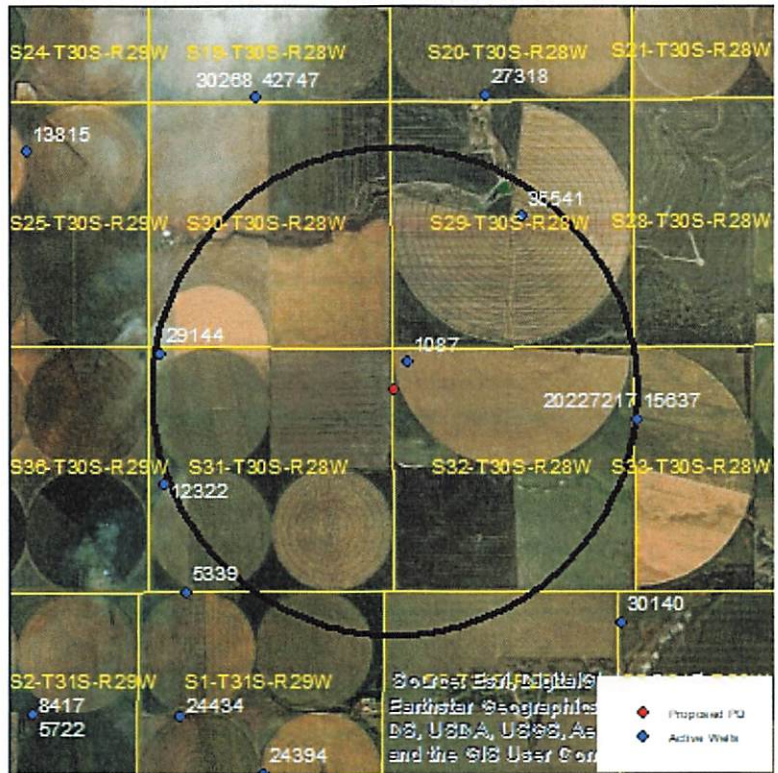


Evaluation of proposed move for Water Right No. 1087

Proposed: Move water right no. 1087 to a new well location, a distance of 687 ft to the southwest.



Wells within 1 mile: 29144 and 35541.

The saturated thickness at the proposed well location is estimated to be 221 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:

$S = 0.203$, $T = 20,361 \text{ ft}^2/\text{day}$, $t_{p\text{current}} = 61 \text{ days}$ (based on average use and observed rate),
 $Q_{\text{current}} = 881 \text{ gpm}$ (based on 2011 field inspection), $t_{p\text{proposed}} = 121 \text{ days}$, $Q_{\text{proposed}} = 1200 \text{ gpm}$

Theis drawdowns were calculated as follows:

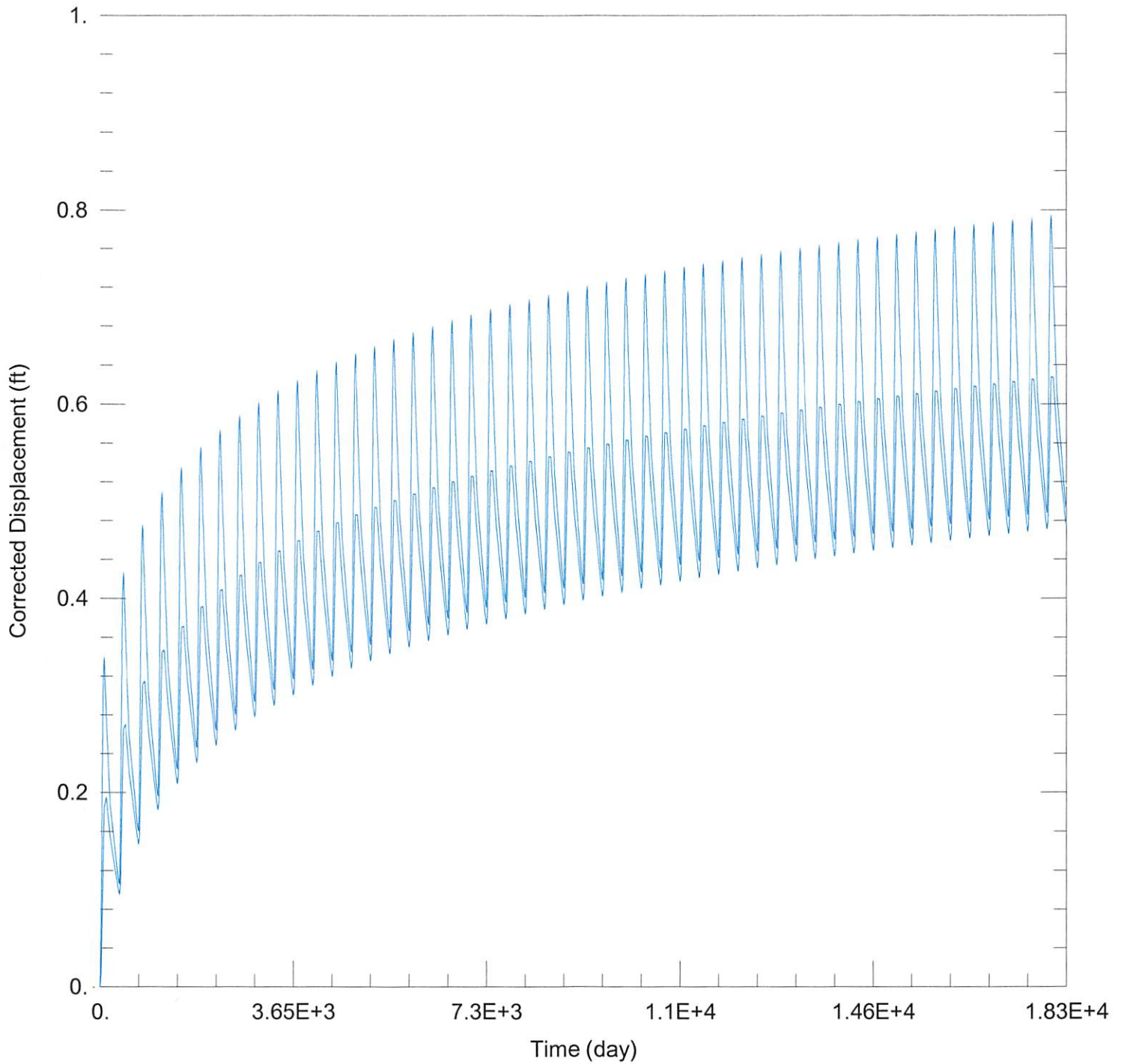
- 29144:
 - Drawdown from current location = 0.63 ft
 - Drawdown from proposed location = 1.72 ft
 - Net drawdown = **1.1 ft**

- 35541:
 - Drawdown from current location = 0.79 ft
 - Drawdown from proposed location = 1.82 ft
 - Net drawdown = **1.0 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\2023_moves\1087\1087 Current.aqt

Date: 06/06/23

Time: 15:11:56

PROJECT INFORMATION

Company: GMD 3

Project: 1087

Location: Meade County

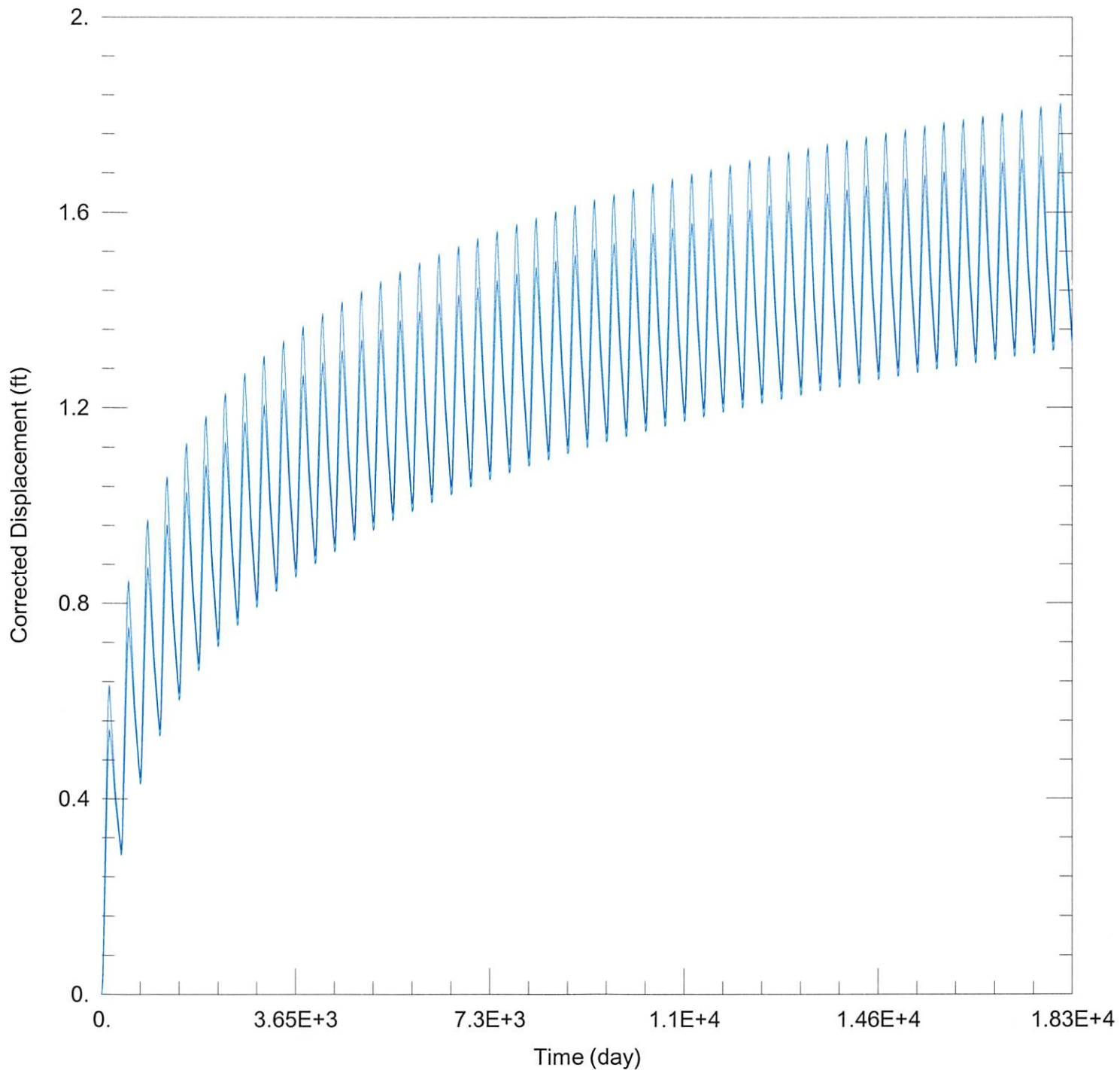
WELL DATA

Pumping Wells

Observation Wells

| Well Name | X (ft) | Y (ft) |
|-----------|--------|--------|
| 1087 | 111764 | 191679 |

| Well Name | X (ft) | Y (ft) |
|-----------|--------|--------|
| □ | 111764 | 191679 |



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\1087\1087 Proposed.aqt

Date: 06/06/23

Time: 15:11:50

PROJECT INFORMATION

Company: GMD 3

Project: 1087

Location: Meade County

WELL DATA

Pumping Wells

Observation Wells

| Well Name | X (ft) | Y (ft) |
|-----------|--------|--------|
| 1087 | 111460 | 191034 |

| Well Name | X (ft) | Y (ft) |
|-----------|--------|--------|
| □ | 111460 | 191034 |