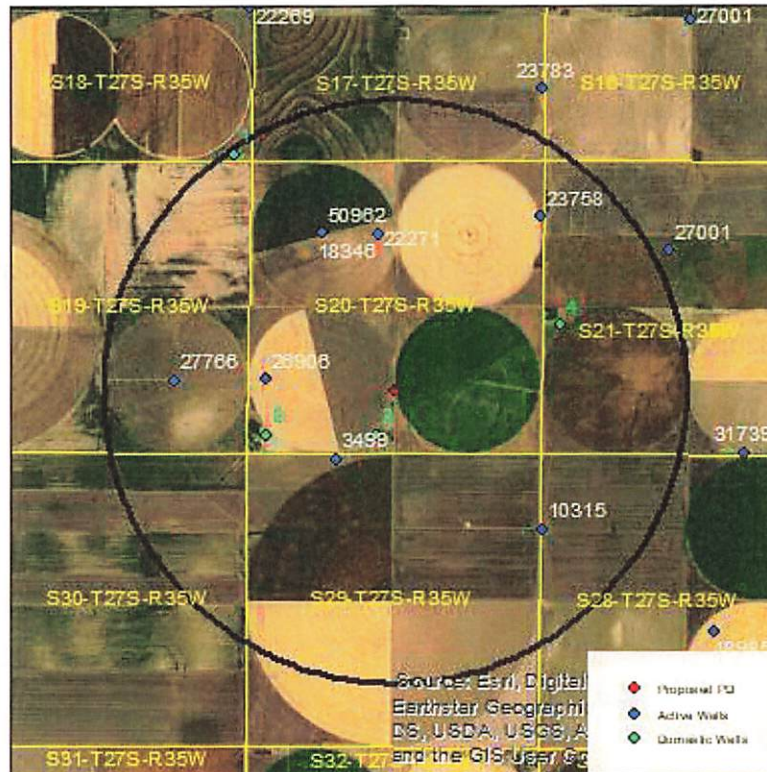


## Evaluation of proposed new appropriation for Water Right No. 50962

Proposed: Create a new water right at the well location indicated by the red dot on the map below. The water right will be authorized 10 AF at a rate of 50 gpm.



Wells within 1 mile: 27766, 26908, 50962, 18346 & 22271, 23758, 3499, 10315, and four domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 158 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:

$$S = 0.2128, T = 7368 \text{ ft}^2/\text{day}, t_{p\text{proposed}} = 45 \text{ days}, Q_{\text{proposed}} = 50 \text{ gpm}$$

Theis drawdowns were calculated as follows:

27766:	Net drawdown = 0.1 ft
26908:	Net drawdown = 0.1 ft
50962:	Net drawdown = 0.1 ft
18346 & 22271:	Net drawdown = 0.1 ft
23758:	Net drawdown = 0.1 ft
3499:	Net drawdown = 0.1 ft
10315:	Net drawdown = 0.1 ft

**Domestic 1:                      Net drawdown = 0.1 ft**

**Domestic 2:                      Net drawdown = 0.2 ft**

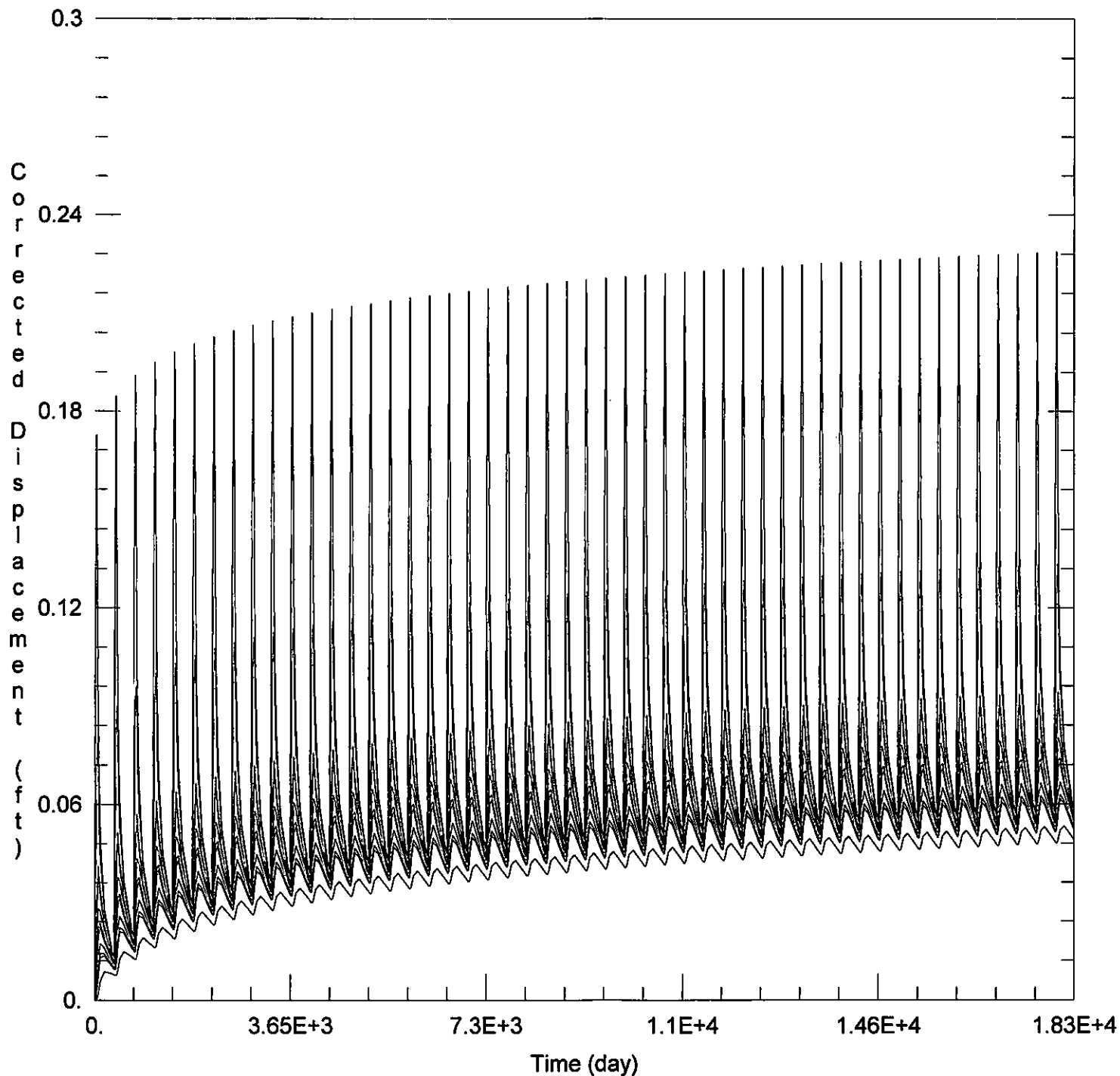
**Domestic 3:                      Net drawdown = 0.1 ft**

**Domestic 4:                      Net drawdown = 0.1 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 New Appropriations\50962\50962 Proposed.aqt

Date: 08/23/23

Time: 15:55:13

### PROJECT INFORMATION

Company: GMD 3

Project: 50962

Location: Grant County

### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
Proposed PD	-108000	293758

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	-108000	293758
□ 27766	-111085	293057