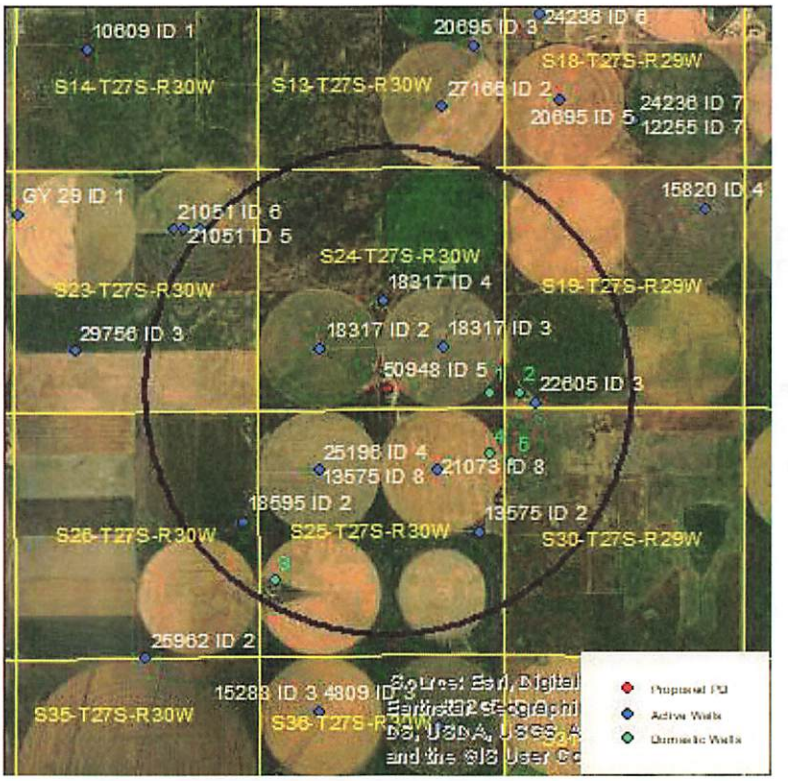
Evaluation of proposed new appropriation for Water Right No. 50948

Proposed: Create a new water right appropriation no. 50948 at the well location indicated by the red dot on the map below. The water right will be authorized 15 AF @ 99 gpm.



Wells within 1 mile: 18317 ID2, 18317 ID3, 18317 ID4, 18595, 25196, 13575 & 21073, 13575, 22605, and five domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 97 ft, based upon the GMD3 model. For saturated thickness between 75 ft and 100 ft, the drawdown allowance is 2.0 ft.

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

S = 0.1705, T = 29,764 ft^2/day, $tp_{proposed}$ = 34 days, $Q_{proposed}$ = 99 gpm

Theis drawdowns were calculated as follows:

18317 ID2:	Net drawdown = **0.1 ft**
18317 ID3:	Net drawdown = **0.1 ft**
18317 ID4:	Net drawdown = **0.1 ft**
18595:	Net drawdown = **0.0 ft**
25196:	Net drawdown = **0.1 ft**
13575 & 21073:	Net drawdown = **0.1 ft**
13575:	Net drawdown = **0.1 ft**

22605: Net drawdown = **0.1 ft**

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

Domestic 2: Net drawdown = **0.1 ft**

Domestic 3: Net drawdown = **0.0 ft**

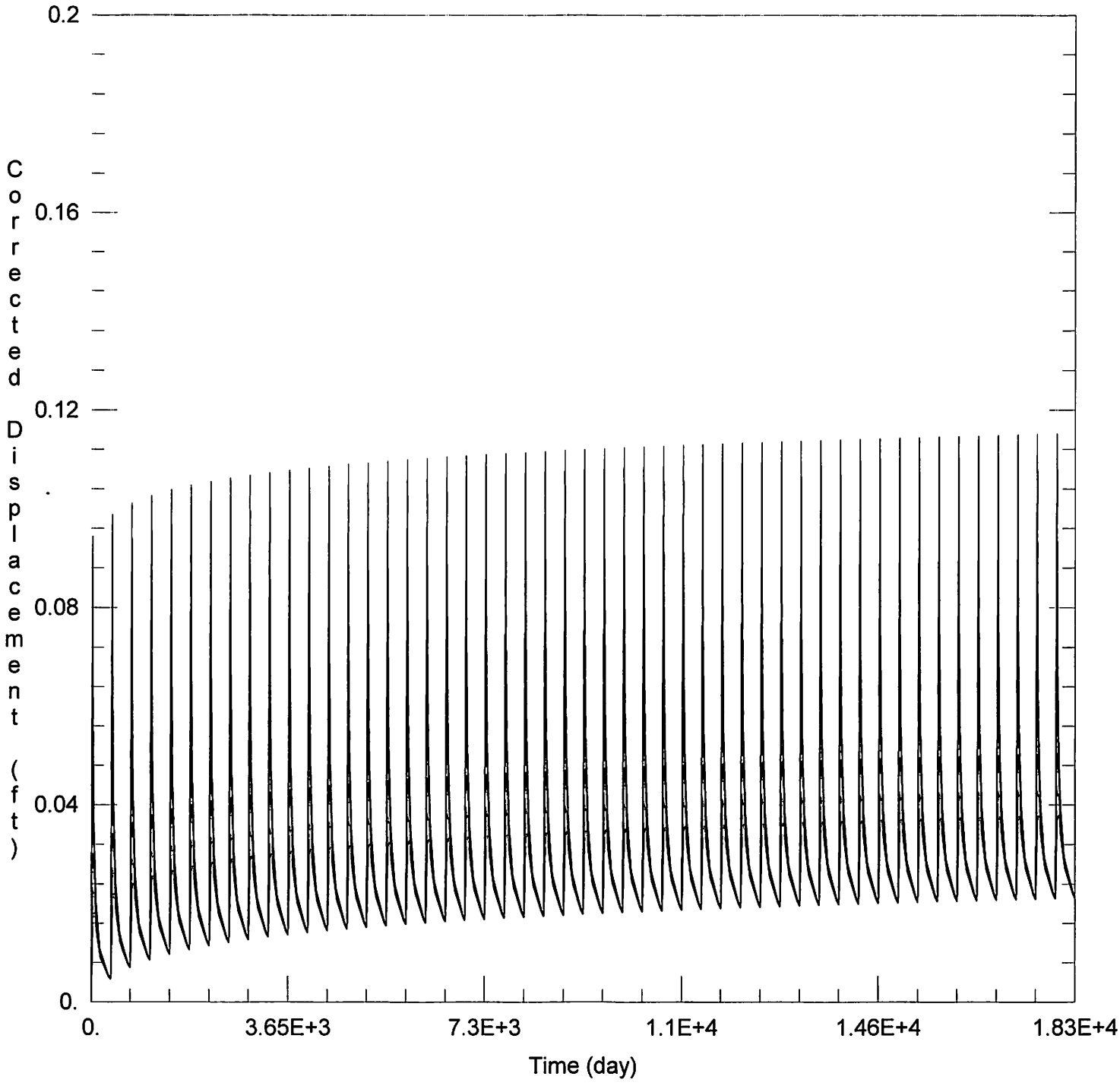
Domestic 4: Net drawdown = **0.1 ft**

Domestic 5: Net drawdown = **0.1 ft**

Net drawdown does not exceed the drawdown allowance of 2.0 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_New_Appropriations\50948\50948 Proposed.aqt
Date: 08/29/23 Time: 14:13:46

PROJECT INFORMATION

Company: GMD 3
Project: 50948
Location: Gray County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
50948	71708	293205

Observation Wells

Well Name	X (ft)	Y (ft)
▫	71708	293205
▫ 18317 ID2	70247	294082