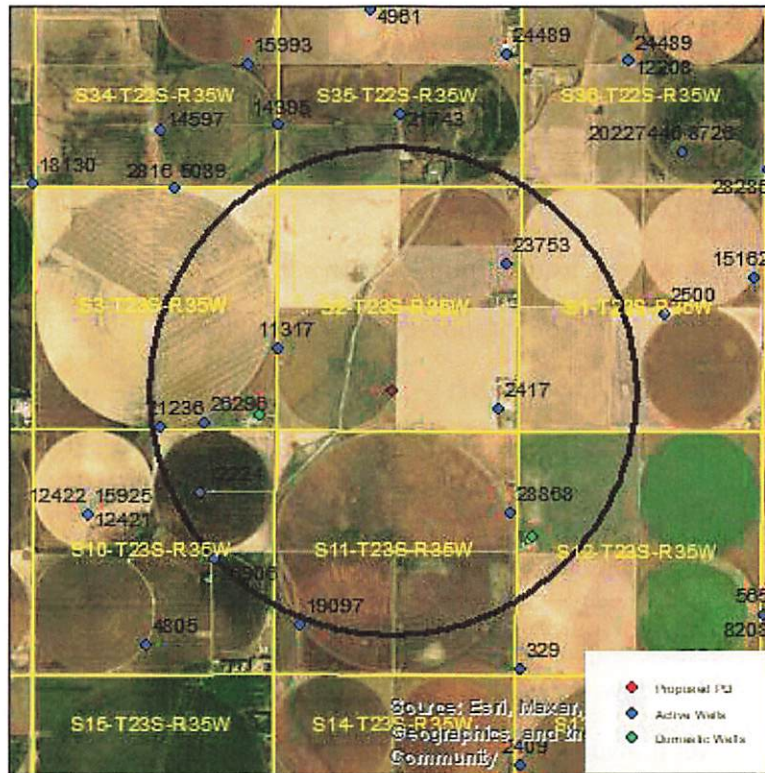


## Evaluation of proposed move for Water Right No. 11317

Proposed: Move water right no. 11317 to a new well location, a distance of 2,640 ft to the southeast.



Wells within 1 mile: 21236, 26296, 23753, 2417, 12224, 28868, a domestic well in section 3-23-35, and a domestic well in section 12-23-35.

The saturated thickness at the proposed well location is estimated to be 144 ft, based upon the driller's log. For saturated thickness between 125 ft and 150 ft, the drawdown allowance is 3.0 ft.

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

$S = 0.1772$ ,  $T = 24,562 \text{ ft}^2/\text{day}$ ,  $tp_{\text{current}} = 11 \text{ days}$  (based on average use and reported rate),  
 $Q_{\text{current}} = 400 \text{ gpm}$ ,  $tp_{\text{proposed}} = 46 \text{ days}$ ,  $Q_{\text{proposed}} = 1545 \text{ gpm}$

These drawdowns were calculated as follows:

21236: Drawdown from current location = 0.09 ft  
Drawdown from proposed location = 0.82 ft  
Net drawdown = **0.7 ft**

26296: Drawdown from current location = 0.12 ft  
Drawdown from proposed location = 1.00 ft  
Net drawdown = **0.9 ft**

23753: Drawdown from current location = 0.05 ft  
Drawdown from proposed location = 1.11 ft  
Net drawdown = **1.1 ft**

2417: Drawdown from current location = 0.05 ft  
Drawdown from proposed location = 1.66 ft  
Net drawdown = **1.6 ft**

12224: Drawdown from current location = 0.08 ft  
Drawdown from proposed location = 0.88 ft  
Net drawdown = **0.8 ft**

28868: Drawdown from current location = 0.04 ft  
Drawdown from proposed location = 1.11 ft  
Net drawdown = **1.1 ft**

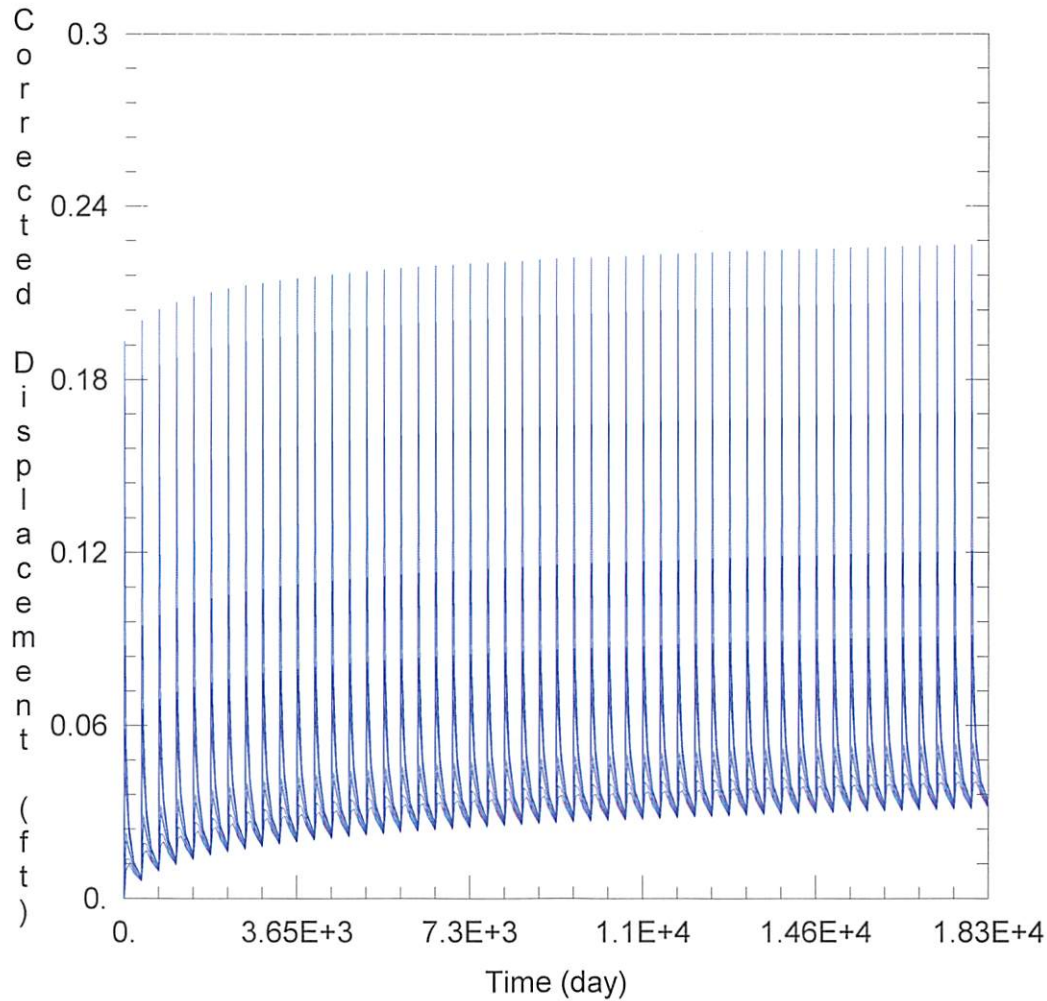
Domestic 3-23-35: Drawdown from current location = 0.23 ft  
Drawdown from proposed location = 1.33 ft  
Net drawdown = **1.1 ft**

Domestic 12-23-35: Drawdown from current location = 0.04 ft  
Drawdown from proposed location = 0.94 ft  
Net drawdown = **0.9 ft**

Net drawdown does not exceed the drawdown allowance of 3.0 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\2024\_moves\11317\11317 Current.aqt

Date: 03/27/24

Time: 15:36:15

PROJECT INFORMATION

Company: GMD 3

Project: 11317

Location: Kearny County

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
11317	-97799	439193

Well Name	X (ft)	Y (ft)
□	-97799	439193
□ 21236	-100339	437491
□ 26296	-99388	437575
□ 23753	-92859	441018
□ 2417	-93025	437902
□ 12224	-99480	436064
□ 28868	-92742	435621
□ Domestic 3-23-35	-98175	437760
□ Domestic 12-23-35	-92296	435087

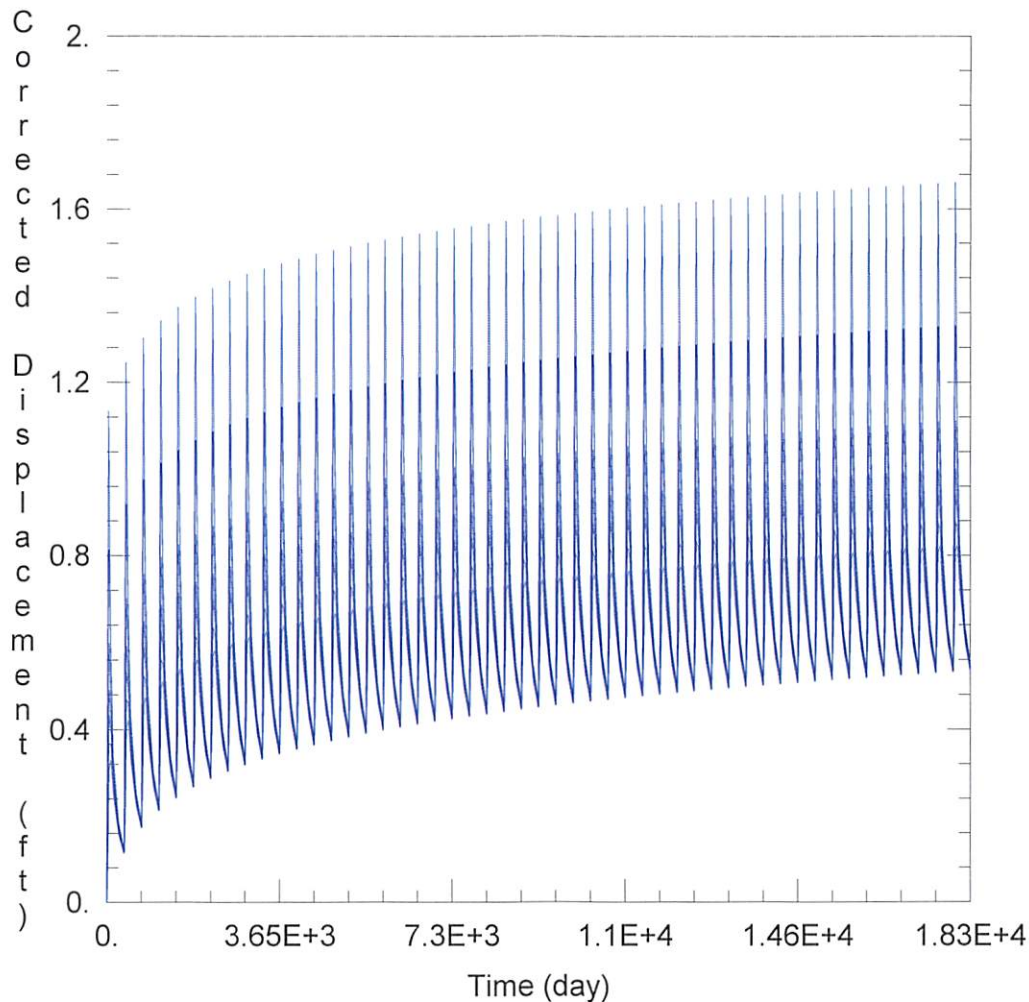
SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis

T = 2.456E+4 ft<sup>2</sup>/day

S = 0.1772



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024\_moves\11317\11317 Proposed.aqt

Date: 03/27/24

Time: 15:36:10

PROJECT INFORMATION

Company: GMD 3

Project: 11317

Location: Kearny County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
11317	-95318	438274

Observation Wells

Well Name	X (ft)	Y (ft)
□	-95318	438274
□ 21236	-100339	437491
□ 26296	-99388	437575
□ 23753	-92859	441018
□ 2417	-93025	437902
□ 12224	-99480	436064
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