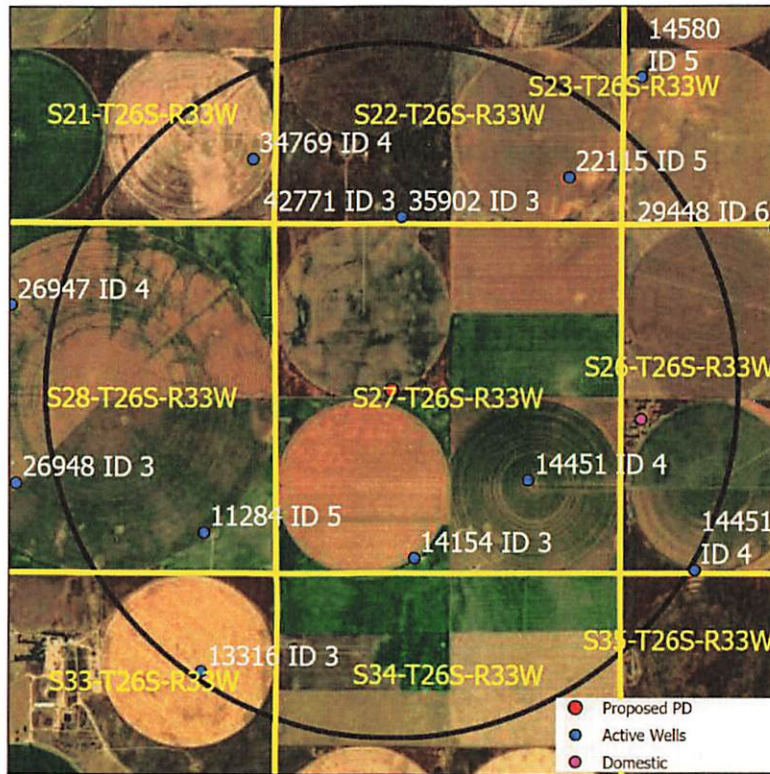


**Evaluation of proposed move for Water Right No. 35902 & 42771**

Proposed: Move water right no. 35902 & 42771 a distance of 2,644 ft to the south onto a new location.



Wells within 1 mile: 34769, 22115, 11284, 14154, 14451, 13316, and one domestic well above.

The saturated thickness at the proposed well location is estimated to be 213 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:

$S = 0.065$ ,  $T = 13,028 \text{ ft}^2/\text{day}$ ,  $tp_{\text{current}} = 147 \text{ days}$  (based on average use and observed rate),

$Q_{\text{current}} = 412 \text{ gpm}$  (based on 2015 field inspection),  $tp_{\text{proposed}} = 123 \text{ days}$ ,  $Q_{\text{proposed}} = 960 \text{ gpm}$

Theis drawdowns were calculated as follows:

34769: Drawdown from current location = 2.01 ft  
 Drawdown from proposed location = 3.11 ft  
 Net drawdown = **1.1 ft**

22115: Drawdown from current location = 1.94 ft  
 Drawdown from proposed location = 3.06 ft  
 Net drawdown = **1.1 ft**

11284: Drawdown from current location = 1.29 ft  
Drawdown from proposed location = 3.39 ft  
Net drawdown: **2.1 ft**

14154: Drawdown from current location = 1.35 ft  
Drawdown from proposed location = 4.09 ft  
Net drawdown: **2.74 ft**

14451: Drawdown from current location = 1.47 ft  
Drawdown from proposed location = 4.15 ft  
Net drawdown: **2.68 ft**

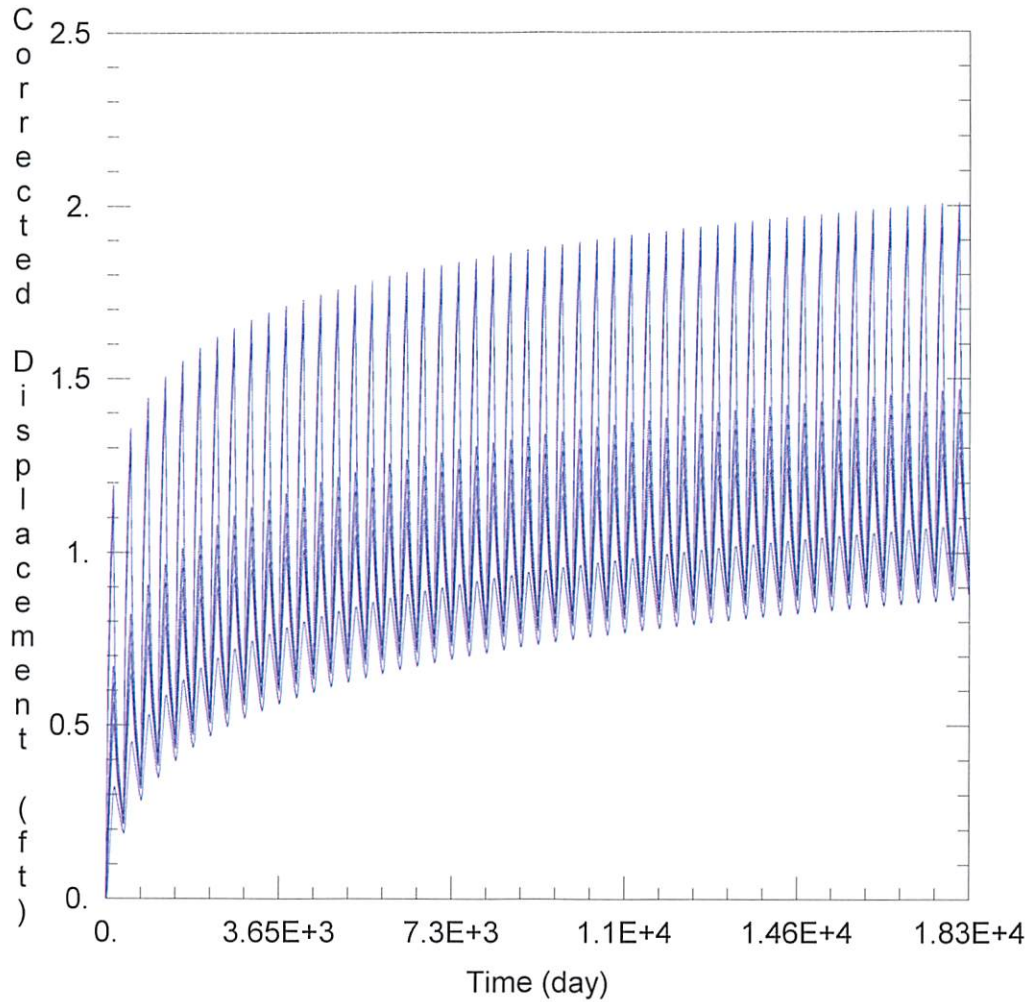
13316: Drawdown from current location = 1.08 ft  
Drawdown from proposed location = 2.73 ft  
Net drawdown: **1.65 ft**

Domestic 26-26-33: Drawdown from current location = 1.41 ft  
Drawdown from proposed location = 3.25 ft  
Net drawdown = **1.8 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\scanstation\Documents\move requests\35902 & 42771\current.aqt  
 Date: 03/17/25 Time: 16:01:52

PROJECT INFORMATION

Test Well: 35902 & 42771

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
35902 & 42771	-34592	324493

Observation Wells

Well Name	X (ft)	Y (ft)
□	-34592	324493
□ 34769	-36860	325370
□ 22115	-32045	325094
□ 11284	-37602	319708
□ 14154	-34393	319322
□ 14451	-32654	320501
□ 13316	-37634	317585
□ Domestic	-30938	321426

SOLUTION

Aquifer Model: Unconfined

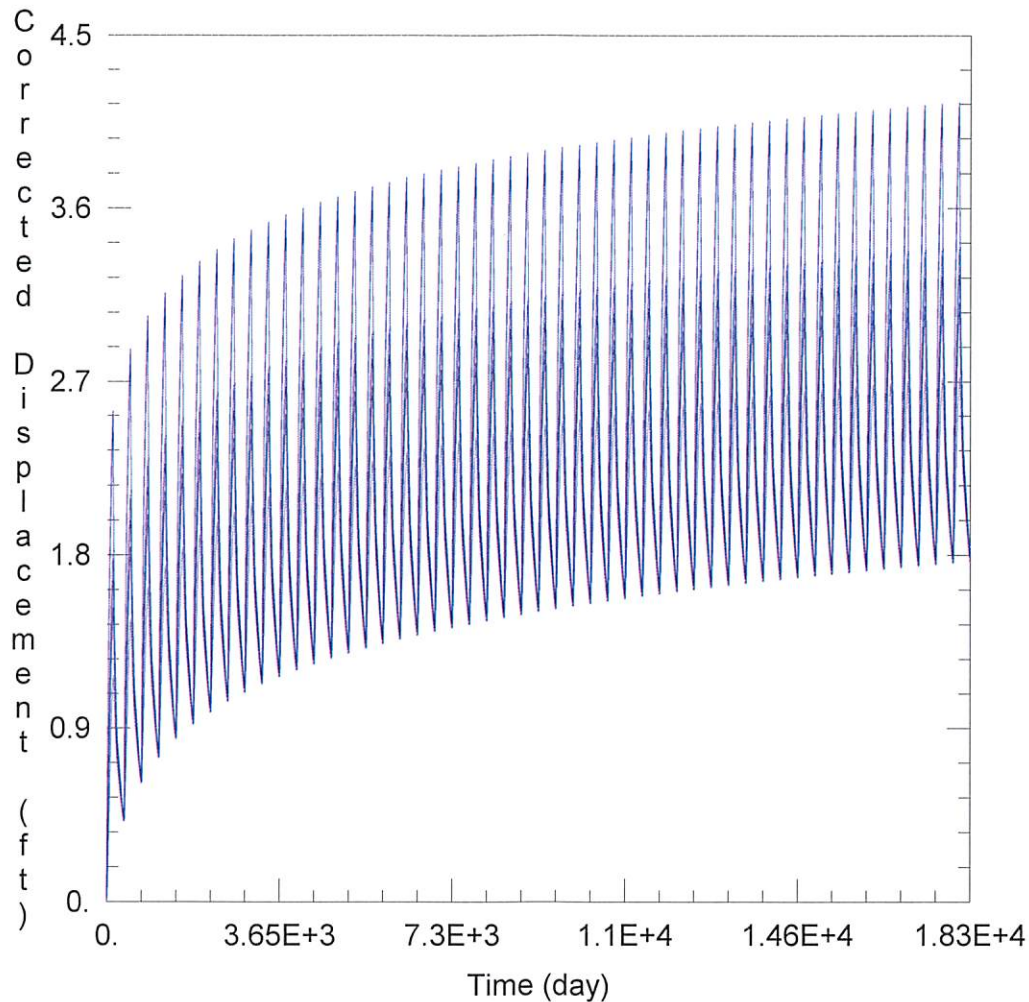
Solution Method: Theis

T = 1.303E+4 ft<sup>2</sup>/day

S = 0.065

Kz/Kr = 1.

b = 213.3 ft



WELL TEST ANALYSIS

Data Set: C:\Users\scanstation\Documents\move requests\35902 & 42771\proposed.aqt  
 Date: 03/17/25 Time: 16:01:56

PROJECT INFORMATION

Test Well: 35902 & 42771

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
35902 & 42771	-34738	321853

Observation Wells

Well Name	X (ft)	Y (ft)
□	-34738	321853
□ 34769	-36860	325370
□ 22115	-32045	325094
□ 11284	-37602	319708
□ 14154	-34393	319322
□ 14451	-32654	320501
□ 13316	-37634	317585
□ Domestic	-30938	321426

SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis

T = 1.303E+4 ft<sup>2</sup>/day

S = 0.065

Kz/Kr = 1.

b = 213.3 ft