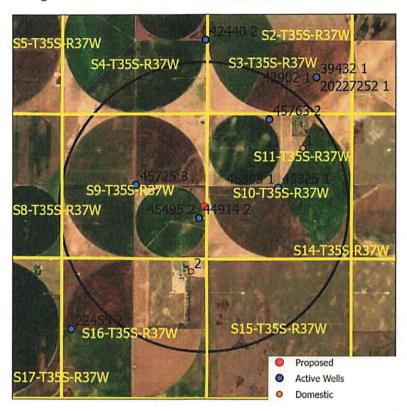
Evaluation of proposed move for Water Right Nos. 44914 & 45495

Proposed: Move water right nos. 44914 & 45495 a distance of 449 ft to the northeast to a new location.



Wells within 1 mile: 45725, 45763, 45325, and two domestic wells.

The saturated thickness at the proposed well location is estimated to be 390.6 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 = 0.036, T = 9,567.6 ft²/day, tp_{current} = 59 days (based on average use and observed rate),

Q_{current} = 1000 gpm (based on 2024 water report use), tp_{proposed} = 63 days, Q_{proposed} = 1705 gpm

Theis drawdowns were calculated as follows:

45725: Drawdown from current location = 3.93 ft

Drawdown from proposed location = 6.97 ft

Net drawdown = 3.0 ft

45763: Drawdown from current location = 2.54 ft

Drawdown from proposed location = 4.99 ft

Net drawdown = 2.4 ft

45325: Drawdown from current location = 3.43 ft

Drawdown from proposed location = 6.62 ft

Net drawdown: 3.2

Domestic 1: Drawdown from current location = 2.49 ft

Drawdown from proposed location = 4.78 ft

Net drawdown = 2.3 ft

Domestic 2: Drawdown from current location = 4.78 ft

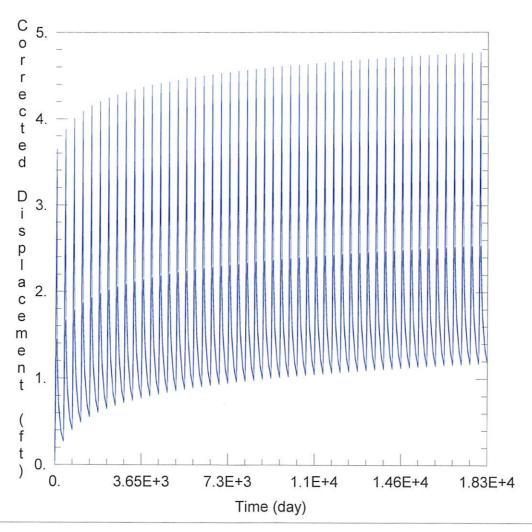
Drawdown from proposed location = 7.40 ft

Net drawdown = 2.6 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\45495\44914 & 45495 current.aqt

Date: 11/25/24

Time: 14:58:01

PROJECT INFORMATION

Test Well: 44914 & 45495

WELL DATA

Euriping Wells			
Well Name	X (ft)	Y (ft)	
44914 & 45495	-157660	51213	

Pumping Wells

Well Name	X (ft)	Y (ft)
	-157660	51213
45725	-159960	52421
45763	-155100	54817
45325	-154763	52322
Domestc 1	-153885	53762
Domestic 2	-157953	49277

Observation Wells

SOLUTION

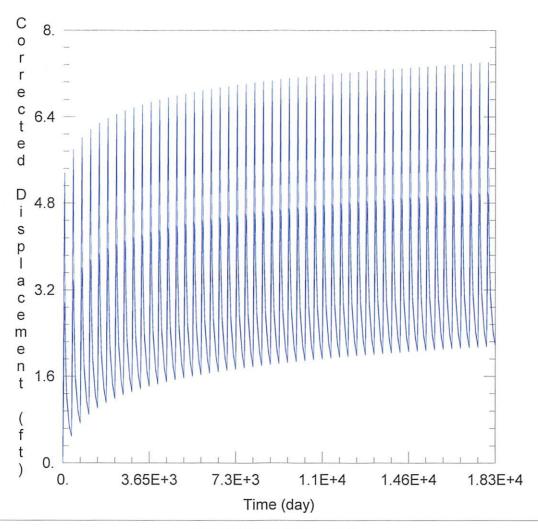
Aquifer Model: Unconfined

 $= 9576.6 \text{ ft}^2/\text{day}$ Т

Kz/Kr = 1.

Solution Method: Theis

S = 0.036= 390.6 ft



WELL TEST ANALYSIS

Data Set: C:\Users\scanstation\Documents\move requests\45495\44914 & 45495 proposed.aqt

Date: 11/25/24 Time: 14:58:07

PROJECT INFORMATION

Test Well: 44914 & 45495

WELL DATA

 Pumping Wells

 Well Name
 X (ft)
 Y (ft)

 44914 & 45495
 -157477
 51623

Well Name	X (ft)	Y (ft)
	-157477	51623
· 45725	-159960	52421
45763	-155100	54817
45325	-154763	52322
Domestc 1	-153885	53762
Domestic 2	-157953	49277

Observation Wells

SOLUTION

Aquifer Model: Unconfined

 $T = 9576.6 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

Solution Method: Theis

S = 0.036b = 390.6 ft