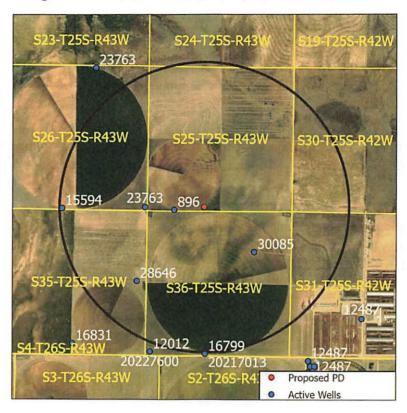
Evaluation of proposed move for Water Right No. 896

Proposed: Move water right no. 896 to a new well location, a distance of 1095 ft to the northeast.



Wells within 1 mile: 15594, 23763, 28646, 30085.

The saturated thickness at the proposed well location is estimated to be 431 ft, based upon the driller's log and observation well in Section 35-25-43. 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:

$$S=0.1188,\,T=2314.5\,\,ft^2/day,\,tp_{current}=220\,\,days,\,Q_{current}=200\,\,gpm),\,tp_{proposed}=65\,\,days,\,Q_{proposed}=1115\,\,gpm$$

Theis drawdowns were calculated as follows:

15594:

Drawdown from current location = 3.15 ft

Drawdown from proposed location = 4.55 ft

Net drawdown = 1.4 ft

23763:

Drawdown from current location = 6.12 ft

Drawdown from proposed location = 8.06 ft

Net drawdown = 1.9 ft

28646: Drawdown from current location = 3.80 ft

Drawdown from proposed location = 5.68 ft

Net drawdown = 1.9 ft

30085: Drawdown from current location = 3.57 ft

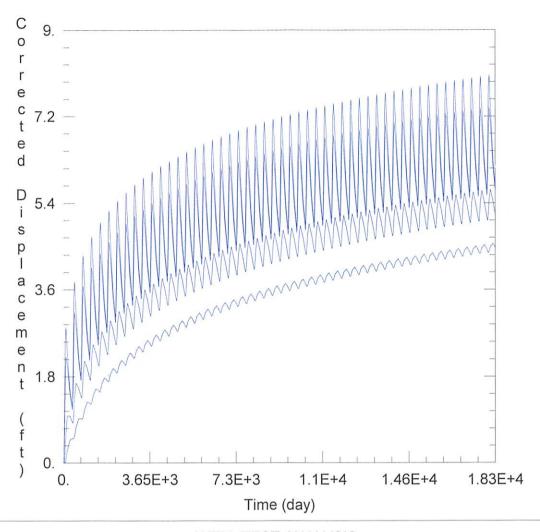
Drawdown from proposed location = 7.39 ft

Net drawdown = 3.8 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\896\896 proposed.aqt Date: 05/15/24 Time: 14:30:52

PROJECT INFORMATION

Project: 896

Location: Hamilton County

WELL DATA

Pumping Wells			
Well Name	X (ft)	Y (ft)	
896	-344488	354211	

Well Name	X (ft)	Y (ft)
	-344488	354211
15594	-349676	354166
<u>23763</u>	-346652	354203
28646	-346943	351516
□ 30085	-342664	352579

Observation Wells

SOLUTION

Aquifer Model: Unconfined

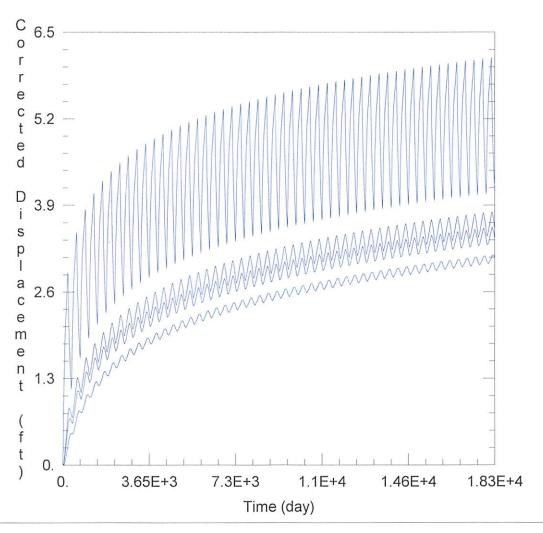
 $= 2314.5 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

Solution Method: Theis

= 0.1188S

= 431. ft b



WELL TEST ANALYSIS

Data Set: C:\Users\scanstation\Documents\move requests\896\896 current.aqt

Date: 05/15/24

Time: 14:31:01

PROJECT INFORMATION

Project: 896

Location: Hamilton County

WELL DATA

Pumping Wells			
Well Name	X (ft)	Y (ft)	
896	-345579	354109	

Well Name	X (ft)	Y (ft)
	-345579	354109
15594	-349676	354166
23763	-346652	354203
· 28646	-346943	351516
· 30085	-342664	352579

Observation Wells

SOLUTION

Aquifer Model: Unconfined

 $T = 2314.5 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

Solution Method: Theis

S = 0.1188

b = 431. ft