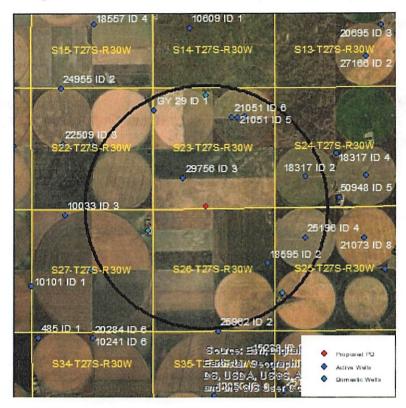
Evaluation of proposed move for Water Right No. 29756

Proposed: Move water right no. 29756 to a new well location, a distance of 1,582 ft to the southeast.



Wells within 1 mile: GY 29, 21051, 18317, 18595, 25196, a domestic well in section 23-27-30, a domestic well in section 25-27-30, and a domestic well in section 27-27-30.

The saturated thickness at the proposed well location is estimated to be 76 ft, based upon the driller's log and an observation well in section 23-27-30. For saturated thickness between 75 ft and 100 ft, the drawdown allowance is 2.0ft.

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

S = 0.1297, T = 44,150 ft²/day, $tp_{current} = 0$ days (no use in last 10 years), $Q_{current} = 0$ gpm, $tp_{proposed} = 56$ days, $Q_{proposed} = 1000$ gpm

Theis drawdowns were calculated as follows:

GY 29: Net drawdown = **0.5 ft**

21051: Net drawdown = **0.6** ft

18317: Net drawdown = **0.6** ft

18595: Net drawdown = **0.7** ft

25196: Net drawdown = **0.6** ft

Domestic 23-27-30: Net drawdown = **0.5** ft

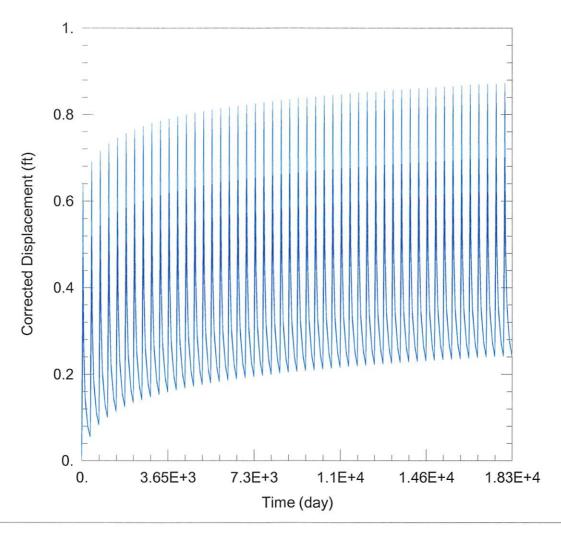
Domestic 25-27-30: Net drawdown = 0.5 ft

Domestic 27-27-30: Net drawdown = **0.9** 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_moves\29756\29756 proposed.aqt

Date: 07/27/23 Time: 10:14:54

PROJECT INFORMATION

Company: GMD3 Project: 29756

Location: Gray County

WELL DATA

Pumping vveils			
Well Name	X (ft)	Y (ft)	
29756	65920	292792	

Well Name	X (ft)	Y (ft)
0	65920	292792
□ GY 29	63673	296987
- 21051	67291	296682
· 18317	70247	294082
18595	68580	290356
- 25196	70236	291457
Domestic 23-27-30	65921	297613
 Domestic 25-27-30 	69261	289079
 Domestic 27-27-30 	63399	291770

Observation Wells

SOLUTION

Aquifer Model: Unconfined

= 4.415E+4 ft²/day

Solution Method: Theis

S = 0.1297