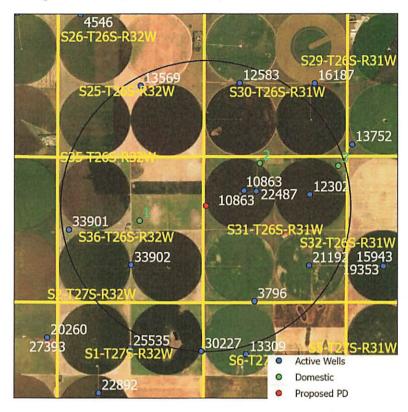
Evaluation of proposed move for Water Right No. 22487

Proposed: Move water right no. 22487, a distance of 1,875 ft to the southwest.



Wells within 1 mile: 13569, 12583, 33901, 33902, 10863, 12302, 21192, 3796, 30227, a domestic well in section 36-26-32 and two domestic wells in section 31-26-31.

The saturated thickness at the proposed well location is estimated to be 212.4 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 = 0.2028, T = 7,367.30 ft²/day, $tp_{current} = 291$ days (based on average use and observed rate), $Q_{current} = 118$ gpm (based on 2023 field inspection), $tp_{proposed} = 65$ days, $Q_{proposed} = 1050$ gpm

Theis drawdowns were calculated as follows:

13569:

Drawdown from current location = 0.76 ft

Drawdown from proposed location = 1.69 ft

Net drawdown = 0.9 ft

12583:

Drawdown from current location = 0.91 ft

Drawdown from proposed location = 1.76 ft

Net drawdown = 0.8 ft

33901:	Drawdown from current location = 0.68 ft
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Drawdown from proposed location = 1.67 ft

Net drawdown = 1.0 ft

33902: Drawdown from current location = 0.79 ft

Drawdown from proposed location = 2.13 ft

Net drawdown = 1.3 ft

10863: Drawdown from current location = 1.96 ft

Drawdown from proposed location = 4.02 ft

Net drawdown = 2.1 ft

12302: Drawdown from current location = 1.24 ft

Drawdown from proposed location = 1.98 ft

Net drawdown = 0.7 ft

21192: Drawdown from current location = 1.00 ft

Drawdown from proposed location = 1.83 ft

Net drawdown = 0.8 ft

3796: Drawdown from current location = 0.91 ft

Drawdown from proposed location = 1.95 ft

Net drawdown = 1.0 ft

30227: Drawdown from current location = 0.73 ft

Drawdown from proposed location = 1.62 ft

Net drawdown = 0.9 ft

Domestic 36-26-32: Drawdown from current location = 0.87 ft

Drawdown from proposed location = 2.74 ft

Net drawdown = 1.9 ft

Domestic 2 31-26-31: Drawdown from current location = 1.55 ft

Drawdown from proposed location = 2.69 ft

Net drawdown = 1.1 ft

Domestic 3 31-26-31: Drawdown from current location = 1.02 ft

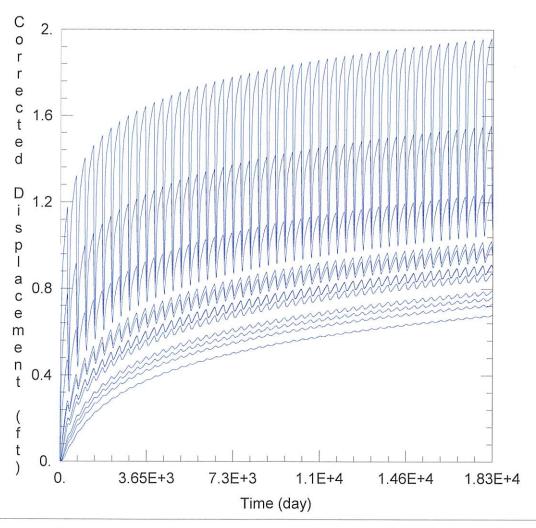
Drawdown from proposed location = 1.67 ft

Net drawdown = 0.6 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\22487\22487 current.aqt

Date: 05/24/24

Time: 14:27:47

PROJECT INFORMATION

Test Well: 27123

WELL DATA

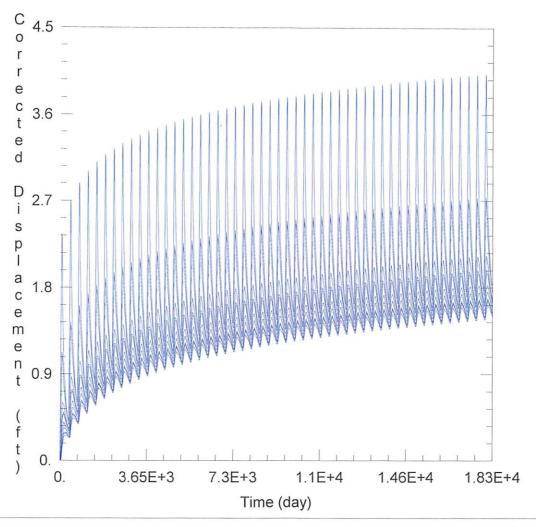
Pumping Wells			
Well Name	X (ft)	Y (ft)	
22487	12920	317752	

Observation Wells			
Well Name	X (ft)	Y (ft)	
	12920	317752	
13569	8715	321573	
12583	12317	321684	
□ 33901	6105	316362	
□ 33902	8370	315070	
10863	12477	317779	
12302	14869	317640	
21192	14847	315065	
□ 3796	12861	313757	
30227	10945	311943	
Domestic 1	8683	316688	
Domestic 2	13049	318766	
Domestic 3	15909	318681	

SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis



WELL TEST ANALYSIS

Data Set: C:\Users\scanstation\Documents\move requests\22487\22487 propsed.aqt

Date: 05/24/24 Time: 14:28:13

PROJECT INFORMATION

Test Well: 27123

WELL DATA

Pumping vveils			
Well Name	X (ft)	Y (ft)	
22487	11085	317213	

Observation Wells			
Well Name	X (ft)	Y (ft)	
	11085	317213	
· 13569	8715	321573	
· 12583	12317	321684	
⁻ 33901	6105	316362	
⁻ 33902	8370	315070	
⁻ 10863	12477	317779	
12302	14869	317640	
· 21192	14847	315065	
⁻ 3796	12861	313757	
□ 30227	10945	311943	
□ Domestic 1	8683	316688	
Domestic 2	13049	318766	
Domestic 3	15909	318681	

SOLUTION

Aguifer Model: Unconfined

Solution Method: Theis