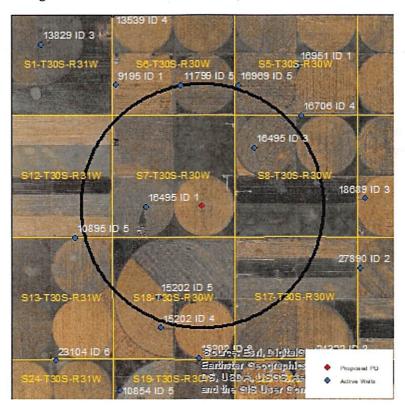
Evaluation of proposed move for Water Right No 16495 ID 1

Proposed: Move water right no. 16495 ID 1 a distance of 2,460 ft to the east.



Wells within 1 mile: 16495 ID 3, 15202 ID 5, and 11799 ID 5.

The saturated thickness at the proposed well location is estimated to be 206 ft, based upon the driller's log. 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 = 0.1494, T = 5,927.4 ft²/day, $tp_{current} = 118$ days (based upon average use and observed rate), $Q_{current} = 727$ gpm (based upon 2019 field inspection), $tp_{proposed} = 79$ days, $Q_{proposed} = 2,000$ gpm

Theis drawdowns were calculated as follows:

16495 ID 3:

Drawdown from current location = 2.54 ft

Drawdown from proposed location = 6.28 ft

Net drawdown = 3.7 ft

15202 ID 5:

Drawdown from current location = 3.07 ft

Drawdown from proposed location = 5.38 ft

Net drawdown = 2.3 ft

11799 ID 5:

Drawdown from current location = 2.52 ft

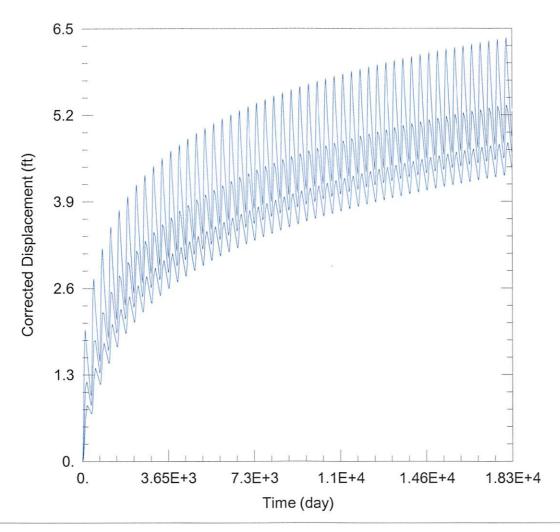
Drawdown from proposed location = 4.74 ft

Net drawdown = 2.2 ft

Net drawdown does not exceed the drawdown allowance of 4.0 ft for any wells within 1 mile of the proposed location. Therefore, critical well analysis is not necessary.

Conclusion:

Based upon information from the GMD3 model, this proposal will cause minimal effects on neighboring wells, and is unlikely to create an impairment. GMD3 staff recommends approval of the application.



WELL TEST ANALYSIS

Data Set: C:\...\16495 Proposed.aqt

Date: 04/20/20

Time: 16:21:57

PROJECT INFORMATION

Company: GMD 3
Project: 16495 ID 1
Location: Meade County
Test Well: 16495 ID 1

WELL DATA

Pumping Wells

X (ft) Y (ft)

46500 209208

	Obser	vation	W	e	ls
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Well Name	X (ft)	Y (ft)
	46500	209208
□ 16495 ID 3	48786	211718
□ 15202 ID 5	44633	205240
□ 11799 ID 5	45565	214396

SOLUTION

Aquifer Model: Unconfined

 $T = 5927.4 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

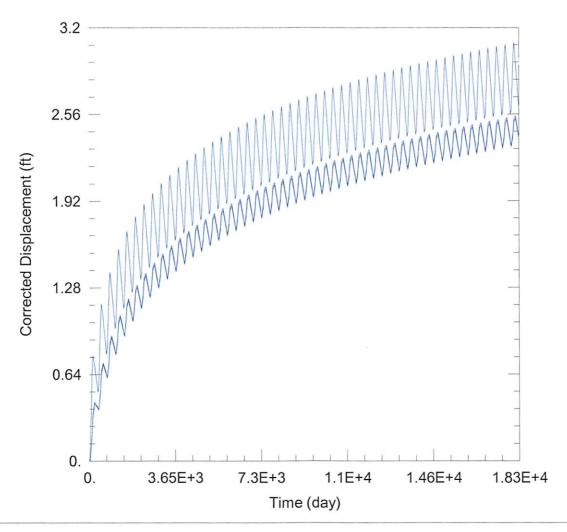
Well Name

16495 ID 1

Solution Method: Theis

S = 0.1494

= 185. ft



WELL TEST ANALYSIS

Data Set: C:\...\16495 Current.aqt

Date: 04/20/20

Time: 16:22:12

PROJECT INFORMATION

Company: GMD 3
Project: 16495 ID 1
Location: Meade County
Test Well: 16495 ID 1

WELL DATA

F	Pumping Wells	
Well Name	X (ft)	Y (ft)
16495 ID 1	44041	209155

Well Name	X (ft)	Y (ft)
	44041	209155
□ 16495 ID 3	48786	211718
□ 15202 ID 5	44633	205240
- 11799 ID 5	45565	214396

Observation Wells

SOLUTION

Aquifer Model: Unconfined

 $T = 5927.4 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

Solution Method: Theis

S = 0.1494

= 185. ft