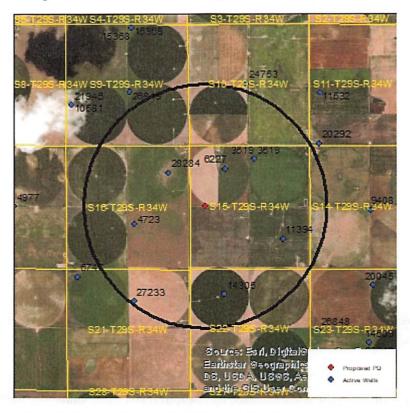
Evaluation of proposed move for Water Right No 6227 A

Proposed: Move water right no. 6227 A a distance of 1,822 ft to the southwest.



Wells within 1 mile: 3519, 11394, 14305, 27233, 4723, and 28284.

The saturated thickness at the proposed well location is estimated to be 239 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 = 0.05322, T = 12,348 ft²/day, $tp_{current} = 198$ days (based upon average use and observed rate), $Q_{current} = 192$ gpm (based upon 2018 field inspection), $tp_{proposed} = 85$ days, $Q_{proposed} = 854$ gpm

Theis drawdowns were calculated as follows:

3519: Drawdown from current location = 1.50 ft

Drawdown from proposed location = 2.90 ft

Net drawdown = 1.4 ft

11394: Drawdown from current location = 1.00 ft

Drawdown from proposed location = 2.49 ft

Net drawdown = 1.5 ft

14305:

Drawdown from current location = 0.85 ft

Drawdown from proposed location = 2.36 ft

Net drawdown = 1.5 ft

27233:

Drawdown from current location = 0.76 ft

Drawdown from proposed location = 1.96 ft

Net drawdown = 1.2 ft

4723:

Drawdown from current location = 0.93 ft

Drawdown from proposed location = 2.75 ft

Net drawdown = 1.8 ft

28284:

Drawdown from current location = 1.21 ft

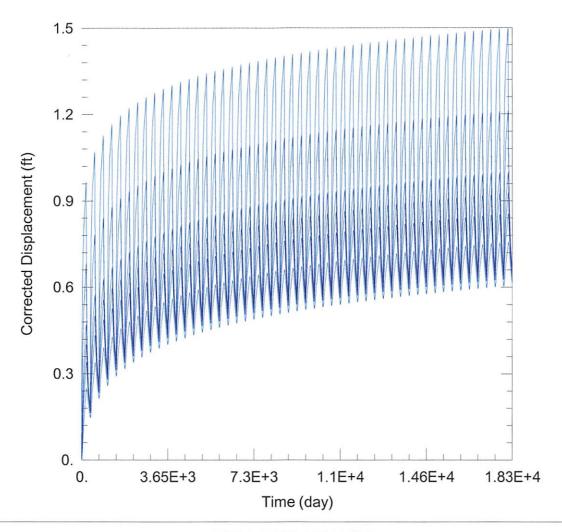
Drawdown from proposed location = 3.51 ft

Net drawdown = 2.3 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:\Users\trevora\Documents\2020_moves\6227A\6227A Current.aqt

Date: 07/14/20 Time: 10:47:22

PROJECT INFORMATION

Company: GMD 3 Project: 6227 A

Location: Haskell County

Test Well: 6227 A

WELL DATA

Pumping Wells Well Name Y (ft) X (ft) -66801 238679

Well Name	X (ft)	Y (ft)
	-66801	238679
3519	-65525	239095
- 11394	-64286	235661
14305	-66846	233237
27233	-70764	232937
· 4723	-70747	236298
28284	-69274	238519

Observation Wells

SOLUTION

Aquifer Model: Unconfined

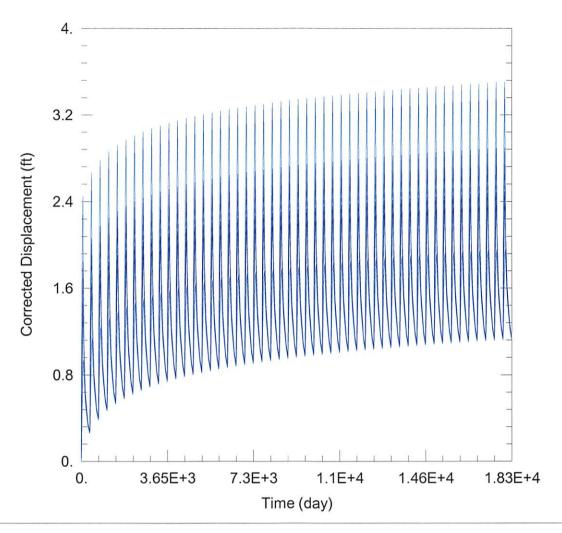
 $= 1.235E+4 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

6227

Solution Method: Theis

S = 0.05322= 239. ft



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020_moves\6227A\6227A Proposed.aqt

Date: 07/14/20 Time: 10:47:15

PROJECT INFORMATION

Company: GMD 3 Project: 6227 A

Location: Haskell County

Test Well: 6227 A

Well Name

6227

WELL DATA

Pumping Wells

X (ft) Y (ft)

-67668 237076

Observation Wells		
Well Name	X (ft)	Y (ft)
0	-67668	237076
3519	-65525	239095
· 11394	-64286	235661
· 14305	-66846	233237
· 27233	-70764	232937
· 4723	-70747	236298
28284	-69274	238519

SOLUTION

Aquifer Model: Unconfined

 $T = 1.235E+4 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

Solution Method: Theis

S = 0.05322b = 239. ft