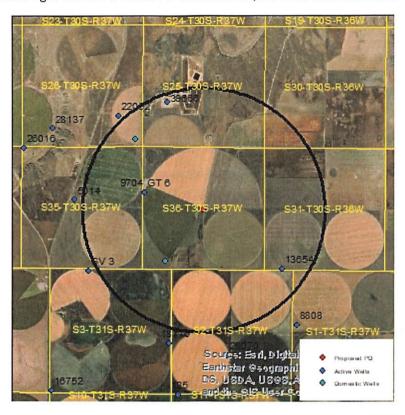
Evaluation of proposed move for Water Right Nos. GT 6 & 9704

Proposed: Move water right nos. GT 6 & 9704 a distance of 2,629 ft to the southeast.



Wells within 1 mile: 39666, 13654, a domestic well in section 26-30-37, and a domestic well in section 36-30-37.

The saturated thickness at the proposed well location is estimated to be 212 ft, based upon an observation well in section 32-30-36 and 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 = 0.1863, T = 5930.5 ft²/day,

 $tp_{current} = 196 days$ (based upon average use and observed rate), $Q_{current} = 507 gpm$ (based upon 2019 field inspection), $tp_{proposed} = 157 days$, $Q_{proposed} = 1100 gpm$

Theis drawdowns were calculated as follows:

39666:

Drawdown from current location = 3.24 ft

Drawdown from proposed location = 5.07 ft

Net drawdown = 1.8 ft

13654: Drawdown from current location = 2.38 ft

Drawdown from proposed location = 5.51 ft

Net drawdown = 3.1 ft

Domestic 26-30-37: Drawdown from current location = 4.33 ft

Drawdown from proposed location = 5.48 ft

Net drawdown = 1.1 ft

Domestic 36-30-37: Drawdown from current location = 3.74 ft

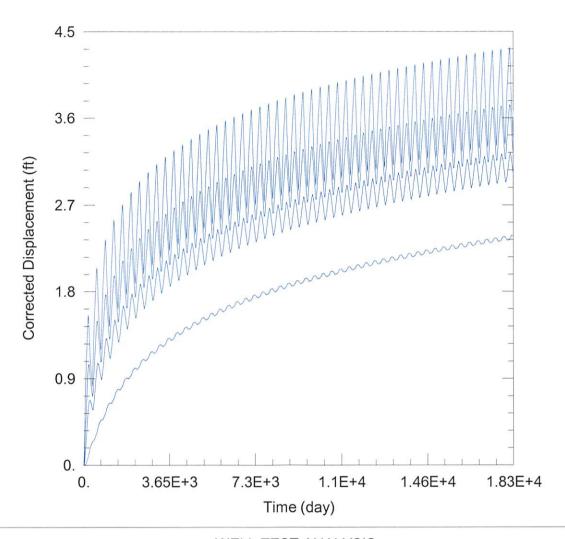
Drawdown from proposed location = 7.06 ft

Net drawdown = 3.3 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 is unlikely to cause impairment. GMD3 staff recommends approval of this proposal.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2021 Moves\GT6 9704\GT6 & 9704 Current.aqt

Date: 03/12/21 Time: 15:05:49

PROJECT INFORMATION

Company: GMD 3
Project: GT 6 & 9704
Location: Grant County
Test Well: GT 6 & 9704

WELL DATA

Pumping Wells

 Well Name
 X (ft)
 Y (ft)

 GT 6 & 9704
 -152792
 190546

Well Name	X (ft)	Y (ft)
а	-152792	190546
39666	-151782	194440
- 13654	-146825	187261
 Domestic 26-30-37 	-153208	192856
 Domestic 36-30-37 	-151895	187589

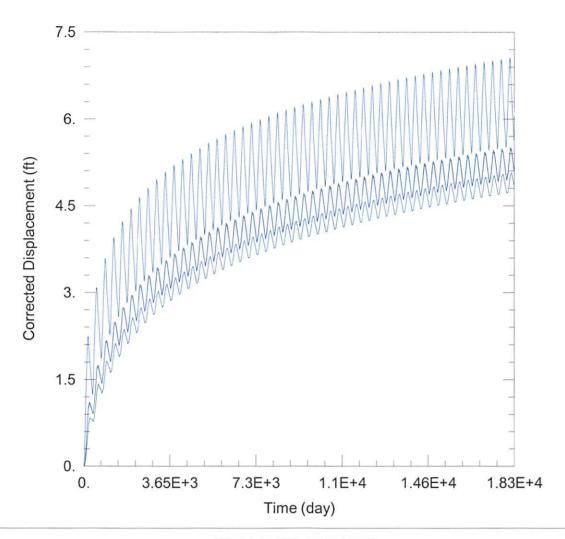
Observation Wells

SOLUTION

Aquifer Model: Unconfined

 $T = 5930.5 \text{ ft}^2/\text{day}$ Kz/Kr = 1. Solution Method: Theis

S = 0.1863b = 212. ft



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2021_Moves\GT6_9704\GT6 & 9704 Proposed.aqt

Date: 03/12/21 Time: 15:05:42

PROJECT INFORMATION

Company: GMD 3
Project: GT 6 & 9704
Location: Grant County
Test Well: GT 6 & 9704

WELL DATA

Pumping Wells

 Well Name
 X (ft)
 Y (ft)

 GT 6 & 9704
 -150219
 189800

Well Name	X (ft)	Y (ft)
	-150219	189800
39666	-151782	194440
13654	-146825	187261
 Domestic 26-30-37 	-153208	192856
 Domestic 36-30-37 	-151895	187589

Observation Wells

SOLUTION

Aquifer Model: Unconfined

 $T = 5930.5 \text{ ft}^2/\text{day}$ Kz/Kr = 1.

S = 0.1863b = 212. ft

Solution Method: Theis