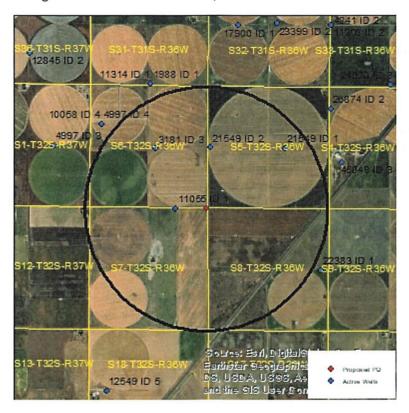
Evaluation of proposed move for Water Right No. 11055

Proposed: Move water right no. 11055 a distance of 1,336 ft to the east.



Wells within 1 mile: 3181, 21549 ID1, and 21549 ID2.

The saturated thickness at the proposed well location is estimated to be 186 ft, based upon the GMD3 model. For saturated thickness between 150 ft and 200 ft, the drawdown allowance is 3.5 ft.

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

S = 0.1719, T = 14,507 ft²/day,

 $tp_{current} = 141 days$ (based on observed rate and average use), $Q_{current} = 516 gpm$ (observed in 2018), $tp_{proposed} = 122 days$, $Q_{proposed} = 900 gpm$

Theis drawdowns were calculated as follows:

3181:

Drawdown from current location = 1.65 ft

Drawdown from proposed location = 2.26 ft

Net drawdown = 0.6 ft

21549 ID1:

Drawdown from current location = 1.10 ft

Drawdown from proposed location = 1.93 ft

Net drawdown = 0.8 ft

21549 ID2:

Drawdown from current location = 1.55 ft

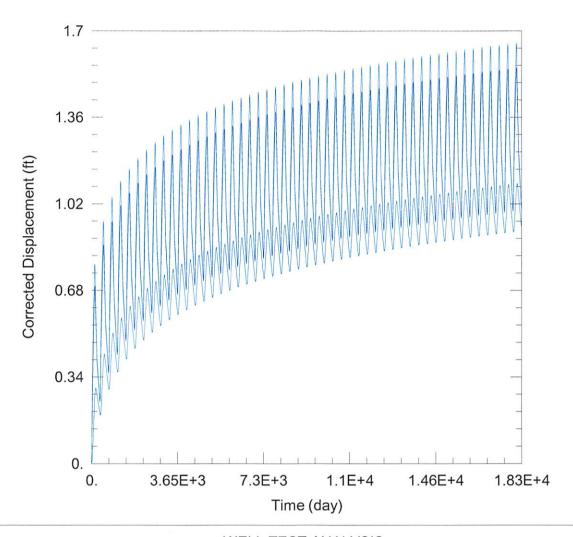
Drawdown from proposed location = 2.61 ft

Net drawdown = 1.1 ft

Net drawdown does not exceed the drawdown allowance of 3.5 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\11055\11055 Current.aqt

Date: 12/02/21 Time: 11:48:35

PROJECT INFORMATION

Company: GMD 3 Project: 11055

Location: Stevens County

WELL DATA

Pumping Wells			
Well Name	X (ft)	Y (ft)	
11055	-137425	149995	

Well Name	X (ft)	Y (ft)
	-137425	149995
⁻ 3181	-138284	152570
□ 21549 ID1	-132670	152601
□ 21549 ID2	-135899	152609

Observation Wells

SOLUTION

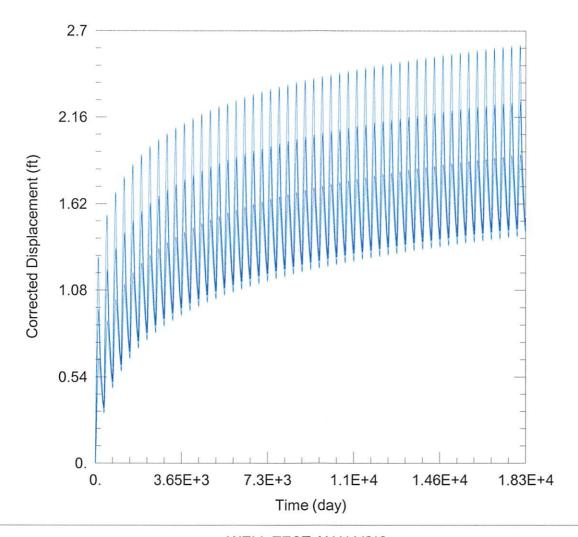
Aquifer Model: Unconfined

 $\Gamma = 1.451E + 4 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

Solution Method: Theis

S = 0.1719b = 186. ft



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2021_Moves\11055\11055 Proposed.aqt

Date: 12/02/21 Time: 11:48:30

PROJECT INFORMATION

Company: GMD 3 Project: 11055

Location: Stevens County

WELL DATA

ſ	Pumping Wells		
Well Name	X (ft)	Y (ft)	W
11055	-136089	149968	
	· · · · · · · · · · · · · · · · · · ·		

Well Name	X (ft)	Y (ft)
	-136089	149968
3181	-138284	152570
□ 21549 ID1	-132670	152601
□ 21549 ID2	-135899	152609

Observation Wells

SOLUTION

Aquifer Model: Unconfined

T = 1.451E+4 ft²/day

Kz/Kr = 1.

Solution Method: Theis

S = 0.1719b = 186. ft