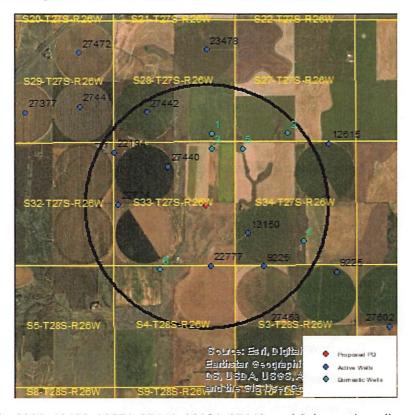
Evaluation of proposed move for Water Right No 22777

Proposed: Move water right no. 22777 a distance of 2,601 ft to the north.



Wells within 1 mile: 9225, 13150, 22774, 27440, 22194, 27442, and 6 domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 70 ft, based upon the driller's log. For saturated thickness between 50 ft and 75 ft, the drawdown allowance is 1.5 ft.

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

S = 0.221, T = 4,517 ft²/day, tp_{current} = 68 days (based upon average use and observed rate), $Q_{current} = 300$ gpm (based upon most recent reported rate), $Q_{proposed} = 36$ days, $Q_{proposed} = 970$ gpm

Theis drawdowns were calculated as follows:

9225: Drawdown from current location = 1.14 ft

Drawdown from proposed location = 1.44 ft

Net drawdown = 0.3 ft

13150: Drawdown from current location = 1.19 ft

Drawdown from proposed location = 2.05 ft

Net drawdown = 0.9 ft

22774: Drawdown from current location = 0.69 ft

Drawdown from proposed location = 1.38 ft

Net drawdown = 0.7 ft

27440: Drawdown from current location = 0.70 ft

Drawdown from proposed location = 1.90 ft

Net drawdown = 1.2 ft

22194: Drawdown from current location = 0.58 ft

Drawdown from proposed location = 1.22 ft

Net drawdown = **0.6** ft

27442: Drawdown from current location = 0.54 ft

Drawdown from proposed location = 1.19 ft

Net drawdown = 0.7 ft

Domestic 1: Drawdown from current location = 0.63 ft

Drawdown from proposed location = 1.57 ft

Net drawdown = **0.9** ft

Domestic 2: Drawdown from current location = 0.57 ft

Drawdown from proposed location = 1.20 ft

Net drawdown = **0.6 ft**

Domestic 3: Drawdown from current location = 0.68 ft

Drawdown from proposed location = 1.84 ft

Net drawdown = 1.2 ft

Domestic 4: Drawdown from current location = 0.76 ft

Drawdown from proposed location = 1.24 ft

Net drawdown = 0.5 ft

Domestic 5: Drawdown from current location = 0.66 ft

Drawdown from proposed location = 1.63 ft

Net drawdown = 1.0 ft

Domestic 6: Drawdown from current location = 1.16 ft

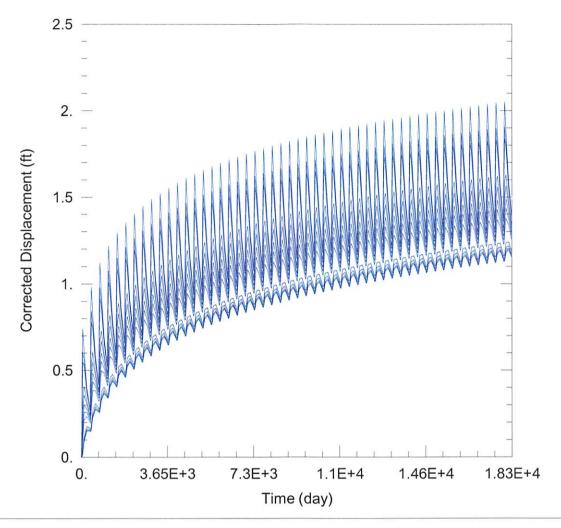
Drawdown from proposed location = 1.49 ft

Net drawdown = 0.3 ft

Net drawdown does not exceed the drawdown allowance of 1.5 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\22777\22777 Proposed.aqt

Date: 09/17/20 Time: 14:37:38

PROJECT INFORMATION

Company: GMD 3 Project: 22777

Location: Ford County Test Well: 22777

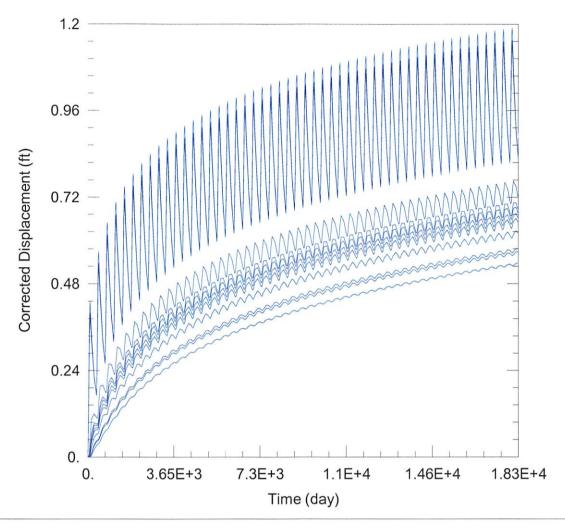
WELL DATA

 Pumping Wells

 Well Name
 X (ft)
 Y (ft)

 22777
 183573
 285275

Observation Wells			
Well Name	X (ft)	Y (ft)	
	183573	285275	
9225	186054	282655	
- 13150	185396	284082	
22774	179734	285333	
27440	181904	286983	
22194	179551	287597	
27442	180998	289336	
 Domestic 1 	183830	288413	
Domestic 2	187127	288426	
Domestic 3	183830	287750	
Domestic 4	187800	283760	
Domestic 5	185150	287760	
 Domestic 6 	181568	282523	



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020_moves\22777\22777 Current.aqt

Date: 09/17/20 Time: 14:37:45

PROJECT INFORMATION

Company: GMD 3 Project: 22777

Location: Ford County Test Well: 22777

WELL DATA

Pumping Wells			
Well Name	X (ft)	Y (ft)	
22777	183791	282683	

Observation Wells			
Well Name	X (ft)	Y (ft)	
	183791	282683	
9225	186054	282655	
13150	185396	284082	
22774	179734	285333	
27440	181904	286983	
22194	179551	287597	
27442	180998	289336	
Domestic 1	183830	288413	
Domestic 2	187127	288426	
Domestic 3	183830	287750	
Domestic 4	187800	283760	
Domestic 5	185150	287760	
Domestic 6	181568	282523	