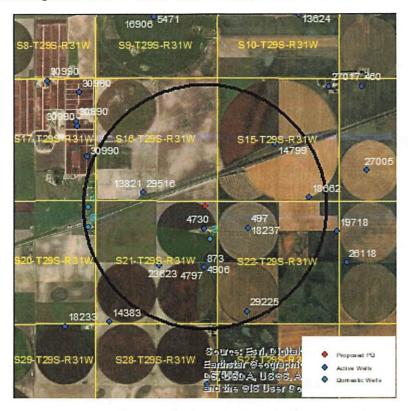
Evaluation of proposed move for Water Right No. 4730

Proposed: Move water right no. 4730 to a new well location, a distance of 977 ft to the north.



Wells within 1 mile: 13821 & 29516, 14799, 18662, 23623, 873 & 4797 & 4906, 497 & 18237, 29225, and three domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 96 ft, based upon the GMD3 model. For saturated thickness between 75 ft and 100 ft, the drawdown allowance is 2.0 ft.

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

S = 0.2024, T = 18,514 ft²/day, tp_{current} = 104 days (based on average use and observed rate), $Q_{current} = 291$ gpm (based on 2018 field inspection), tp_{proposed} = 68 days, $Q_{proposed} = 1028$ gpm

Theis drawdowns were calculated as follows:

13821 & 29516:

Drawdown from current location = 0.54 ft

Drawdown from proposed location = 1.46 ft

Net drawdown = 0.9 ft

14799:

Drawdown from current location = 0.40 ft

Drawdown from proposed location = 1.07 ft

Net drawdown = 0.7 ft

18662: Drawdown from current location = 0.40 ft

Drawdown from proposed location = 0.99 ft

Net drawdown = 0.6 ft

23623: Drawdown from current location = 0.62 ft

Drawdown from proposed location = 1.30 ft

Net drawdown = 0.7 ft

873 & 4797 & 4906: Drawdown from current location = 0.80 ft

Drawdown from proposed location = 1.50 ft

Net drawdown = 0.7 ft

497 & 18237: Drawdown from current location = 0.74 ft

Drawdown from proposed location = 1.81 ft

Net drawdown = 1.1 ft

29225: Drawdown from current location = 0.46 ft

Drawdown from proposed location = 0.94 ft

Net drawdown = 0.5 ft

Domestic 1: Drawdown from current location = 0.39 ft

Drawdown from proposed location = 0.92 ft

Net drawdown = 0.5 ft

Domestic 2: Drawdown from current location = 0.39 ft

Drawdown from proposed location = 0.91 ft

Net drawdown = **0.5** ft

Domestic 3: Drawdown from current location = 1.37 ft

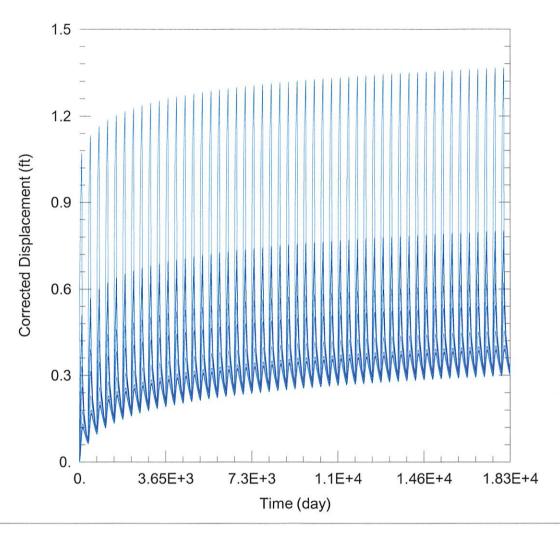
Drawdown from proposed location = 2.40 ft

Net drawdown = 1.0 ft

Net drawdown does not exceed the drawdown allowance of 2.0 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 appears unlikely to cause impairment. Any concerned neighbors should contact GMD3 at (620) 275-7147 or the Division of Water Resources at (620) 276-2901.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\4730\4730 Current.aqt

Date: 06/22/22 Time: 11:08:37

PROJECT INFORMATION

Company: GMD 3 Project: 4730

Location: Haskell County

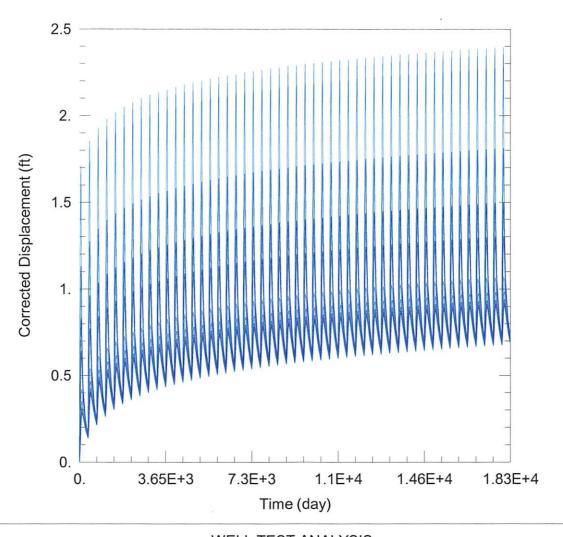
WELL DATA

Pumping Wells			
Well Name	X (ft)	Y (ft)	
4730	26175	233109	

Well Name	X (ft)	Y (ft)
	26175	233109
13821 & 29516	23534	234701
14799	29246	236808
18662	30756	234472
23623	24233	231534
873 & 4797 & 4906	26177	231445
497 & 18237	28089	233165
29225	28064	229560
Domestic 1	21139	234050
Domestic 2	21138	233204
Domestic 3	26428	232679

Observation Wells

SOLUTION



WELL TEST ANALYSIS

PROJECT INFORMATION

Company: GMD 3 Project: 4730

Location: Haskell County

WELL DATA

Well Name	X (ft)	Y (ft)
4730	26210	234085

Well Name	X (ft)	Y (ft)
0	26210	234085
13821 & 29516	23534	234701
14799	29246	236808
- 18662	30756	234472
- 23623	24233	231534
873 & 4797 & 4906	26177	231445
497 & 18237	28089	233165
29225	28064	229560
Domestic 1	21139	234050
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Domestic 3	26428	232679

Observation Wells

SOLUTION