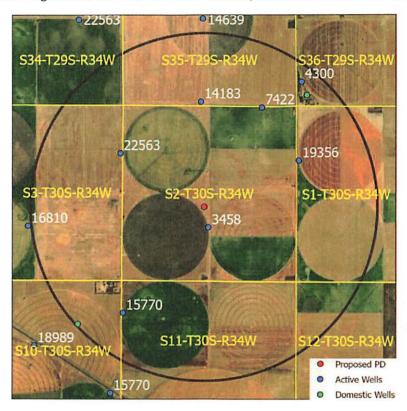
#### Evaluation of proposed move for Water Right No. 3458

Proposed: Move water right no. 3458 to a new well location, a distance of 636 ft to the northwest.



Wells within 1 mile: 14183, 7422, 4300, 22563, 19356, 15770, a domestic well in section 36-29-34, and a domestic well in section 10-30-34.

The saturated thickness at the proposed well location is estimated to be 197 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 = 0.069, T = 53,998 ft<sup>2</sup>/day,  $tp_{current} = 132$  days (based on average use and observed rate),  $Q_{current} = 600$  gpm (based on 2017 water use report),  $tp_{proposed} = 108$  days,  $Q_{proposed} = 1344$  gpm

Theis drawdowns were calculated as follows:

14183:

Drawdown from current location = 0.74 ft

Drawdown from proposed location = 1.61 ft

Net drawdown = 0.9 ft

7422:

Drawdown from current location = 0.72 ft

Drawdown from proposed location = 1.54 ft

Net drawdown = 0.8 ft

4300: Drawdown from current location = 0.63 ft

Drawdown from proposed location = 1.31 ft

Net drawdown = 0.7 ft

22563: Drawdown from current location = 0.77 ft

Drawdown from proposed location = 1.65 ft

Net drawdown = 0.9 ft

19356: Drawdown from current location = 0.77 ft

Drawdown from proposed location = 1.60 ft

Net drawdown = 0.8 ft

15770: Drawdown from current location = 0.75 ft

Drawdown from proposed location = 1.43 ft

Net drawdown = 0.7 ft

Domestic 36-29-34: Drawdown from current location = 0.65 ft

Drawdown from proposed location = 1.34 ft

Net drawdown = 0.7 ft

Domestic 10-30-34: Drawdown from current location = 0.65 ft

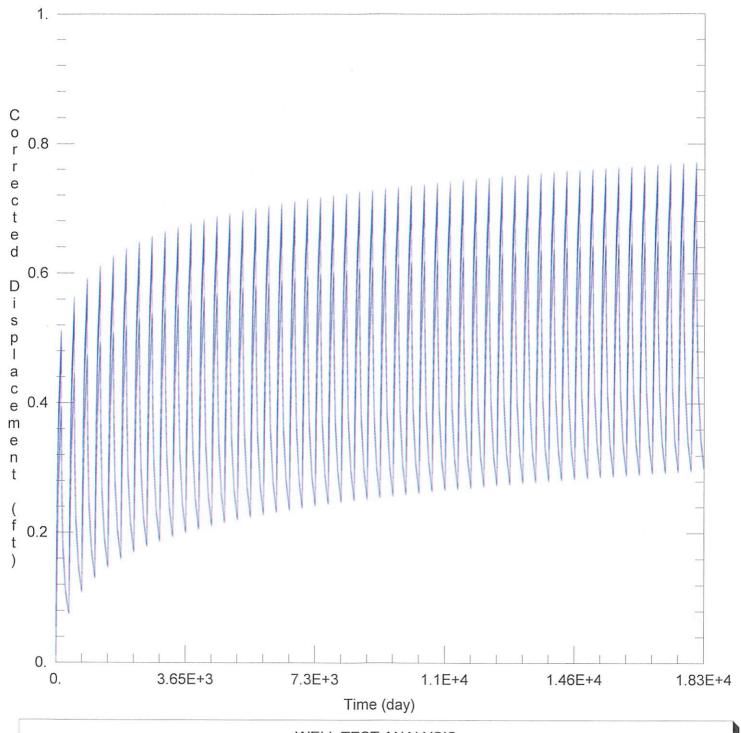
Drawdown from proposed location = 1.25 ft

Net drawdown = 0.6 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 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\2024\_moves\3458\3458 Current.aqt

Date: 09/06/24 Time: 16:04:06

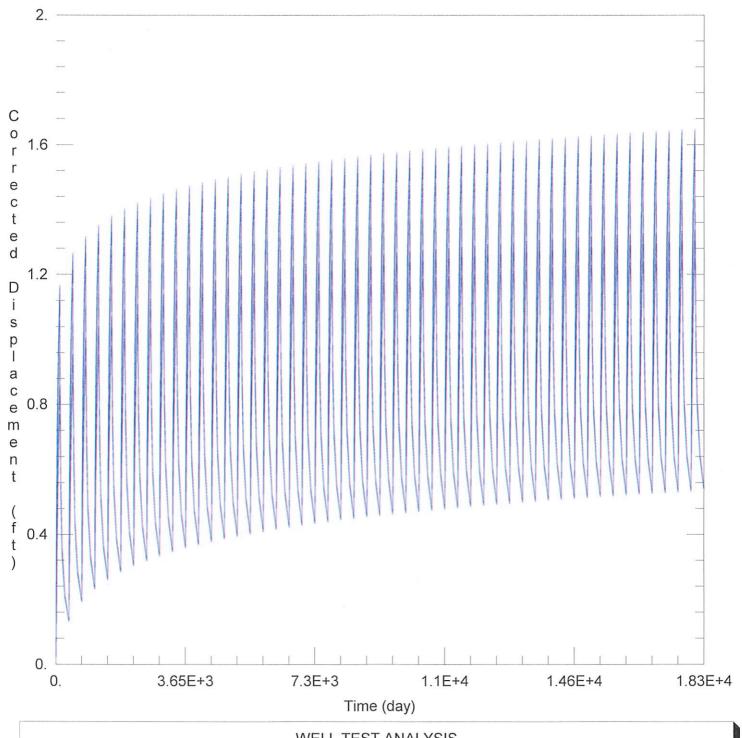
#### PROJECT INFORMATION

Company: GMD 3 Project: 3458

Location: Haskell County

## WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
3458	-60415	214854		-60415	214854
			n 1/183	-60630	218671



### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024\_moves\3458\3458 Proposed.aqt

Date: 09/06/24 Time: 16:04:00

#### PROJECT INFORMATION

Company: GMD 3 Project: 3458

Location: Haskell County

## WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
3458	-60545	215477		-60545	215477
			n 1/183	-60630	218671