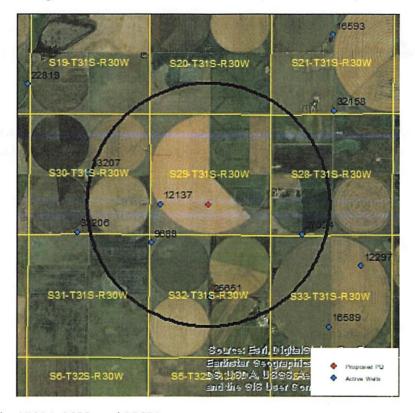
Evaluation of proposed move for Water Right No. 12137

Proposed: Move water right no. 12137 to a new well location, a distance of 2,069 ft to the east.



Wells within 1 mile: 27024, 9688, and 25651.

The saturated thickness at the proposed well location is estimated to be 211 ft, based upon the GMD3 model. 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:

$$S = 0.256$$
, $T = 10,951$ ft²/day, $tp_{current} = 117$ days, $Q_{current} = 935$ gpm, $tp_{proposed} = 113$ days, $Q_{proposed} = 1790$ gpm

Theis drawdowns were calculated as follows:

27024:

Drawdown from current location = 1.65 ft

Drawdown from proposed location = 3.85 ft

Net drawdown = 2.2 ft

9688:

Drawdown from current location = 3.70 ft

Drawdown from proposed location = 4.82 ft

Net drawdown = 1.1 ft

25651:

Drawdown from current location = 1.99 ft

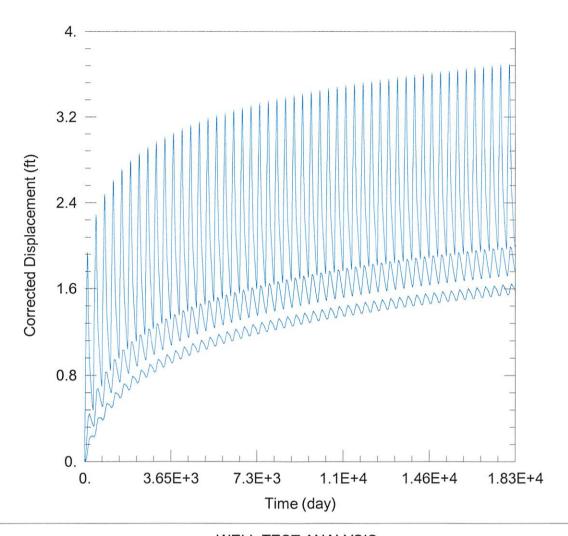
Drawdown from proposed location = 4.00 ft

Net drawdown = 2.0 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 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\12137\12137 Current.aqt

Date: 05/17/22 Time: 16:12:06

PROJECT INFORMATION

Company: GMD 3 Project: 12137

Location: Meade County

WELL DATA

Well Name	X (ft)	Y (ft)
12137	53580	161590

Pumping Wells

Well Name	X (ft)	Y (ft)
	53580	161590
27024	59719	160310
9688	53176	159925
25651	55740	157578

Observation Wells

SOLUTION

Aquifer Model: Unconfined

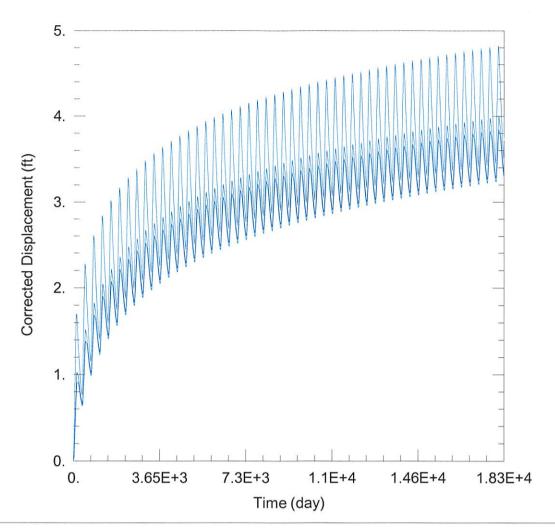
 $T = 1.095E + 4 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

Solution Method: Theis

S = 0.256

b = 211. ft



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\12137\12137 Proposed.aqt

Date: 05/17/22 Time: 16:11:50

PROJECT INFORMATION

Company: GMD 3 Project: 12137

Location: Meade County

WELL DATA

Pur	nping Wells	
	X (ft)	Y (ft)
	55649	161610

Well Name	X (ft)	Y (ft)
0	55649	161610
27024	59719	160310

59719	160310
53176	159925
55740	157578
	53176

Observation Wells

SOLUTION

Aquifer Model: Unconfined

 $T = 1.095E + 4 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

Well Name

12137

Solution Method: Theis

S = 0.256

b = 211. ft