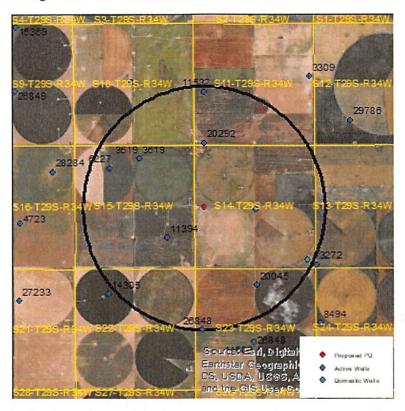
Evaluation of proposed move for Water Right No 9408

Proposed: Move water right no. 9408 a distance of 2,127 ft to the west.



Wells within 1 mile: 11394, 3519, 6227, 20292, 11532, 20045, and a domestic well in section 14-29-34.

The saturated thickness at the proposed well location is estimated to be 247 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 = 0.08333, T = 16,521 ft²/day, $tp_{current} = 157$ days (based upon average use and observed rate), $Q_{current} = 268$ gpm (based upon 2014 field inspection), $tp_{proposed} = 75$ days, $Q_{proposed} = 970$ gpm

Theis drawdowns were calculated as follows:

11394: Drawdown from current location = 0.83 ft

Drawdown from proposed location = 2.72 ft

Net drawdown = 1.9 ft

3519: Drawdown from current location = 0.70 ft

Drawdown from proposed location = 1.85 ft

Net drawdown = 1.1 ft

6227:

Drawdown from current location = 0.64 ft

Drawdown from proposed location = 1.57 ft

Net drawdown = 0.9 ft

20292:

Drawdown from current location = 0.88 ft

Drawdown from proposed location = 2.20 ft

Net drawdown = 1.3 ft

11532:

Drawdown from current location = 0.70 ft

Drawdown from proposed location = 1.44 ft

Net drawdown = 0.7 ft

20045:

Drawdown from current location = 0.93 ft

Drawdown from proposed location = 1.67 ft

Net drawdown = 0.7 ft

Domestic 14-29-34:

Drawdown from current location = 0.95 ft

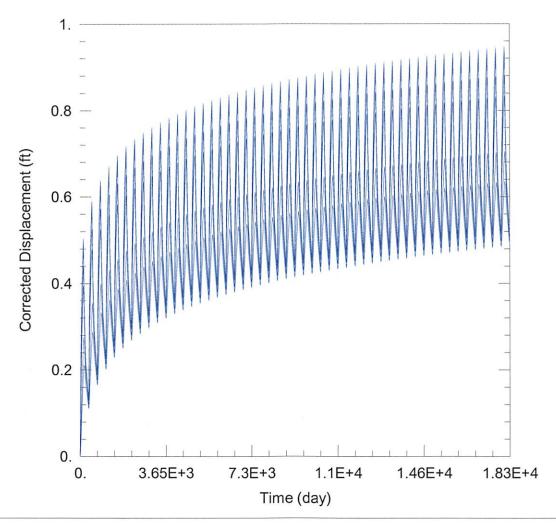
Drawdown from proposed location = 1.43 ft

Net drawdown = **0.5** ft

Net drawdown does not exceed the drawdown allowance of 4.0 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\9408\9408 Current.aqt

Date: 11/10/20

Time: 16:10:11

PROJECT INFORMATION

Company: GMD 3 Project: 9408

Location: Haskell County

Test Well: 9408

WELL DATA

Pumping vveiis		
Well Name	X (ft)	Y (ft)
9408	-60442	236914

Well Name	X (ft)	Y (ft)
0	-60442	236914
- 11394	-64286	235661
3519	-65525	239095
6227	-66801	238679
20292	-62693	239775
□ 11532	-62678	241969
20045	-60376	233632
 Domestic 14-29-34 	-58167	234726

Observation Wells

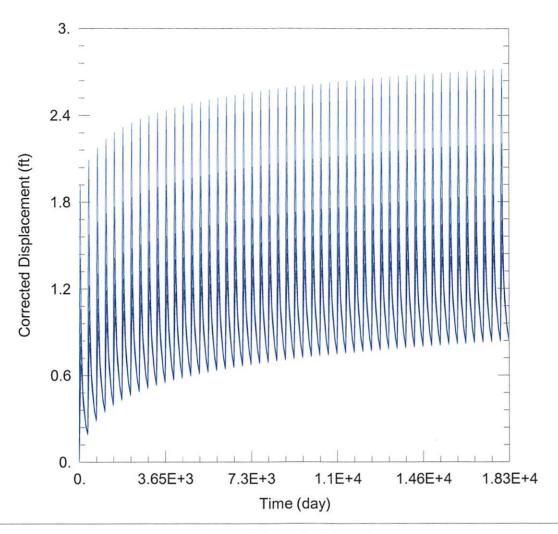
SOLUTION

Aquifer Model: Unconfined

 $= 1.652E + 4 \text{ ft}^2/\text{day}$

Solution Method: Theis

S = 0.08333



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020_moves\9408\9408 Proposed.aqt

Date: 11/10/20 Time: 16:10:05

PROJECT INFORMATION

Company: GMD 3 Project: 9408

Location: Haskell County

Test Well: 9408

9408

WELL DATA

Pumping Wells Well Name X (ft) Y(ft) 236962 -62698

Well Name	X (ft)	Y (ft)
	-62698	236962
□ 11394	-64286	235661
3519	-65525	239095
□ 6227	-66801	238679
20292	-62693	239775
□ 11532	-62678	241969
20045	-60376	233632
 Domestic 14-29-34 	-58167	234726

Observation Wells

SOLUTION

Aquifer Model: Unconfined

 $= 1.652E + 4 \text{ ft}^2/\text{day}$ Τ

Solution Method: Theis

S = 0.08333