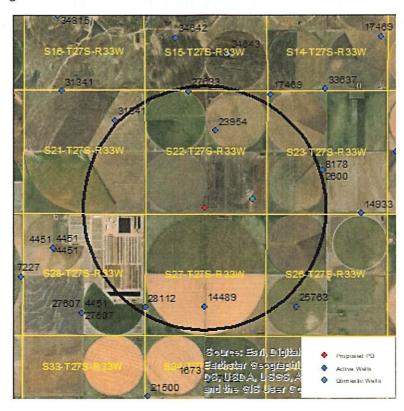
Evaluation of proposed move for Water Right No 3386

Proposed: Move 284.3 AF at 100 gpm from water right no. 3386 to a new well located 2,504 ft to the southwest. The current well location will retain more authority than is currently being used, so only the effect from pumping at the new well location was evaluated.



Wells within 1 mile: 8678, 23954, 27633, 28112, 14489, and a domestic well in section 22-27-33.

The saturated thickness at the proposed well location is estimated to be 256 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:

$$S = 0.1823$$
, $T = 10,972$ ft²/day, $tp_{proposed} = 339$ days, $Q_{proposed} = 100$ gpm

Theis drawdowns were calculated as follows:

8678: Net drawdown = **0.8** ft

23954: Net drawdown = **0.7** ft

27633: Net drawdown = **0.6** ft

28112: Net drawdown = **0.6** ft

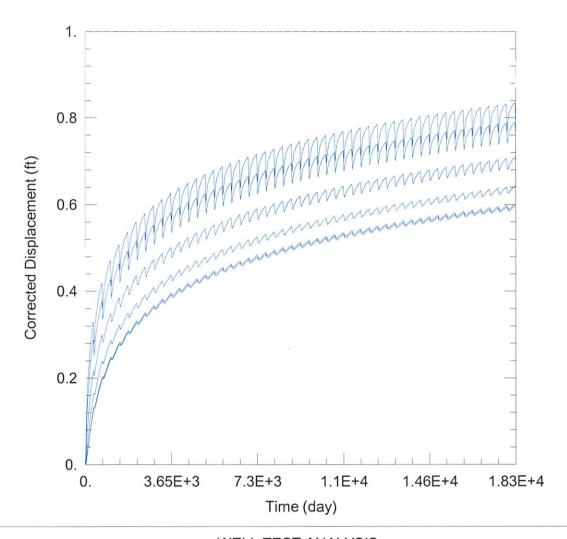
14489: Net drawdown = **0.6** ft

Domestic 22-27-33: Net drawdown = 0.8 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: <u>C:\Users\trevora\Documents\2020_moves\3386\3386.aqt</u>
Date: 10/15/20 Time: 15:55:44

PROJECT INFORMATION

Company: GMD 3 Project: 3386

Location: Haskell County

Test Well: 3386

WELL DATA

 Pumping Wells

 Well Name
 X (ft)
 Y (ft)

 3386
 -33921
 292838

Well Name	X (ft)	Y (ft)
	-33921	292838
8678	-31550	293644
23954	-33439	296168
27633	-34612	297870
28112	-36467	288528
14489	-33882	288554
Domestic 22-27-33	-31826	293215

Observation Wells

SOLUTION

Aquifer Model: Unconfined

 $T = 1.097E + 4 \text{ ft}^2/\text{day}$ Kz/Kr = 1. Solution Method: Theis

S = 0.1823b = 212. ft