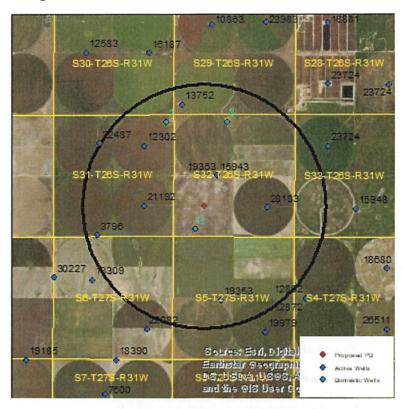
Evaluation of proposed move for Water Right Nos 15943 & 19353

Proposed: Move water right nos. 15943 & 19353 a distance of 1,445 ft to the southwest.



Wells within 1 mile: 28183, 13752, 12302, 21192, 3796, 19353, and 3 domestic wells, numbered on the above map. Note that water right number 19353 on the map was not evaluated because there is a current proposal to move that well to a location further than 1 mile from this proposal.

The saturated thickness at the proposed well location is estimated to be 279 ft, based upon an observation well in section 9-27-31. 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 = 0.2847, T = 23,659 ft²/day, $tp_{current} = 120$ days (presumed pumping time due to no observed rate), $Q_{current} = 408$ gpm (based upon 120 days operation), $tp_{proposed} = 131$ days, $Q_{proposed} = 800$ gpm

Theis drawdowns were calculated as follows:

28183:

Drawdown from current location = 0.73 ft

Drawdown from proposed location = 1.47 ft

Net drawdown = 0.7 ft

13752: Drawdown from current location = 0.61 ft

Drawdown from proposed location = 1.09 ft

Net drawdown = 0.5 ft

12302: Drawdown from current location = 0.61 ft

Drawdown from proposed location = 1.240 ft

Net drawdown = 0.6 ft

21192: Drawdown from current location = 0.61 ft

Drawdown from proposed location = 1.52 ft

Net drawdown = **0.9** ft

3796: Drawdown from current location = 0.44 ft

Drawdown from proposed location = 1.04 ft

Net drawdown = 0.6 ft

19353: Drawdown from current location = 0.46 ft

Drawdown from proposed location = 1.15 ft

Net drawdown = 0.7 ft

Domestic 1: Drawdown from current location = 0.64 ft

Drawdown from proposed location = 1.18 ft

Net drawdown = **0.5** ft

Domestic 2: Drawdown from current location = 0.74 ft

Drawdown from proposed location = 2.37 ft

Net drawdown = 1.6 ft

Domestic 3: Drawdown from current location = 0.77 ft

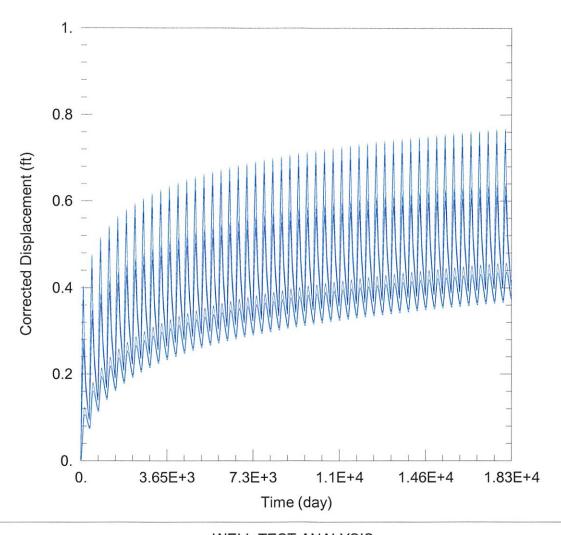
Drawdown from proposed location = 1.22 ft

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\15943_19353\15943_19353 Current.aqt

Date: 07/10/20 Time: 16:41:47

PROJECT INFORMATION

Company: GMD 3
Project: 15943 & 19353
Location: Finney County
Test Well: 15943 & 19353

Well Name

15943 & 19353

WELL DATA

Well Name

Domestic 3

Pumping Wells

X (ft) Y (ft)

18126 316363

	18126	316363
28183	20278	314974
13752	16616	319434
12302	14941	317636
21192	14966	315058
□ 3796	12934	313760
19353	18315	310960
Domestic 1	15909	318681
Domestic 2	17176	314023

Observation Wells

X (ft)

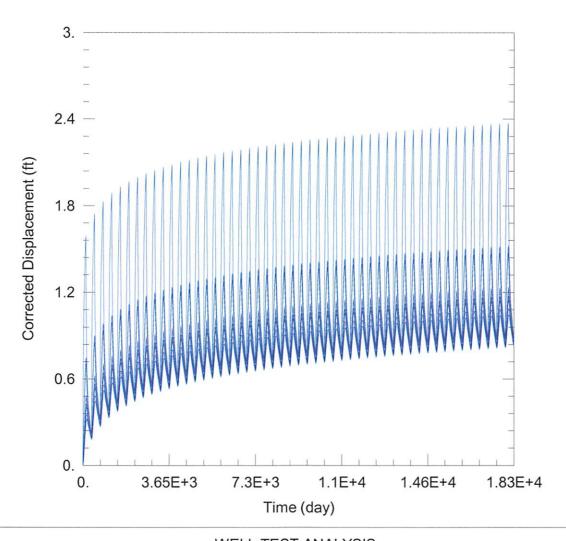
18536

Y (ft)

318680

SOLUTION

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WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020_moves\15943_19353\15943_19353 Proposed.aqt

Date: 07/10/20 Time: 16:41:41

PROJECT INFORMATION

Company: GMD 3
Project: 15943 & 19353
Location: Finney County
Test Well: 15943 & 19353

WELL DATA

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Well Name	X (ft)	Y (ft)	
15943 & 19353	17554	315037	

Pumping Wells

Well Name	X (ft)	Y (ft)
	17554	315037
28183	20278	314974
13752	16616	319434
12302	14941	317636
21192	14966	315058
□ 3796	12934	313760
19353	18315	310960
Domestic 1	15909	318681
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Domestic 3	18536	318680

Observation Wells

SOLUTION

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