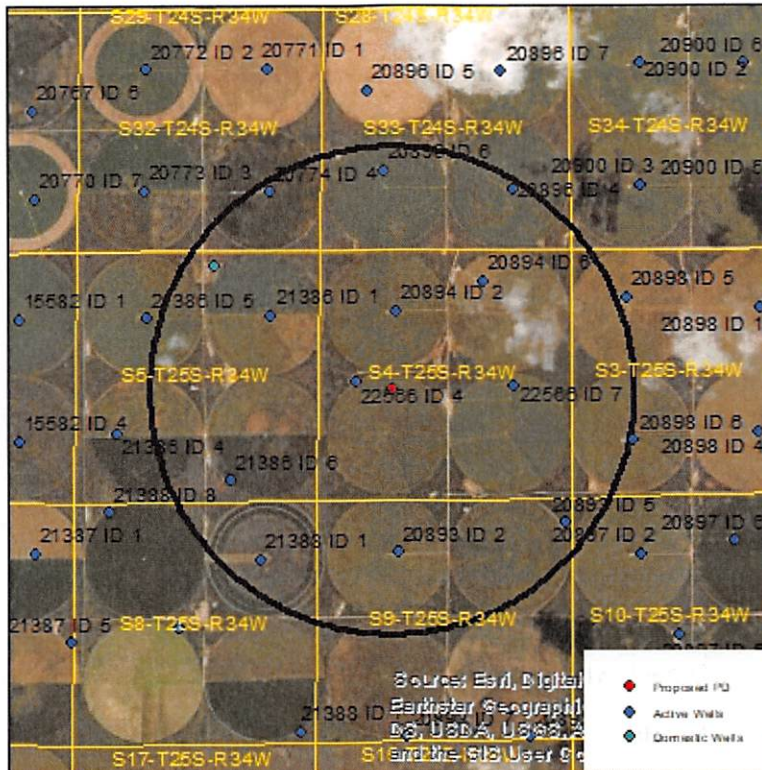


Evaluation of proposed move for Water Right No 22566

Proposed: Move water right no. 22566 ID 4 a distance of 848 ft to the southeast.



Wells within 1 mile: 22566 ID7, 20894 ID2, 20894 ID6, 20896 ID4, 20896 ID6, 20774, 21386 ID1, 21386 ID6, 21388, 20893 ID2, 20893 ID5, and a domestic well in section 5-25-34.

The saturated thickness at the proposed well location is estimated to be 212 ft, based upon an observation well in section 8-25-34 and the driller's log. 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:

$S = 0.2178$, $T = 16,048 \text{ ft}^2/\text{day}$, $t_{p_{\text{current}}} = 112 \text{ days}$ (based upon average use and observed rate), $Q_{\text{current}} = 415 \text{ gpm}$ (based upon 2018 field inspection), $t_{p_{\text{proposed}}} = 59 \text{ days}$, $Q_{\text{proposed}} = 1035 \text{ gpm}$

Theis drawdowns were calculated as follows:

- | | |
|------------|---|
| 22566 ID7: | Drawdown from current location = 0.83 ft |
| | Drawdown from proposed location = 1.42 ft |
| | Net drawdown = 0.6 ft |
| 20894 ID2: | Drawdown from current location = 1.26 ft |
| | Drawdown from proposed location = 2.05 ft |
| | Net drawdown = 0.8 ft |

20894 ID6: Drawdown from current location = 0.82 ft
Drawdown from proposed location = 1.27 ft
Net drawdown = **0.5 ft**

20896 ID4: Drawdown from current location = 0.62 ft
Drawdown from proposed location = 0.85 ft
Net drawdown = **0.2 ft**

20896 ID6: Drawdown from current location = 0.68 ft
Drawdown from proposed location = 0.90 ft
Net drawdown = **0.2 ft**

20774: Drawdown from current location = 0.69 ft
Drawdown from proposed location = 0.86 ft
Net drawdown = **0.2 ft**

21386 ID1: Drawdown from current location = 1.05 ft
Drawdown from proposed location = 1.26 ft
Net drawdown = **0.2 ft**

21386 ID6: Drawdown from current location = 0.83 ft
Drawdown from proposed location = 1.01 ft
Net drawdown = **0.2 ft**

21388: Drawdown from current location = 0.70 ft
Drawdown from proposed location = 0.91 ft
Net drawdown = **0.2 ft**

20893 ID2: Drawdown from current location = 0.77 ft
Drawdown from proposed location = 1.12 ft
Net drawdown = **0.3 ft**

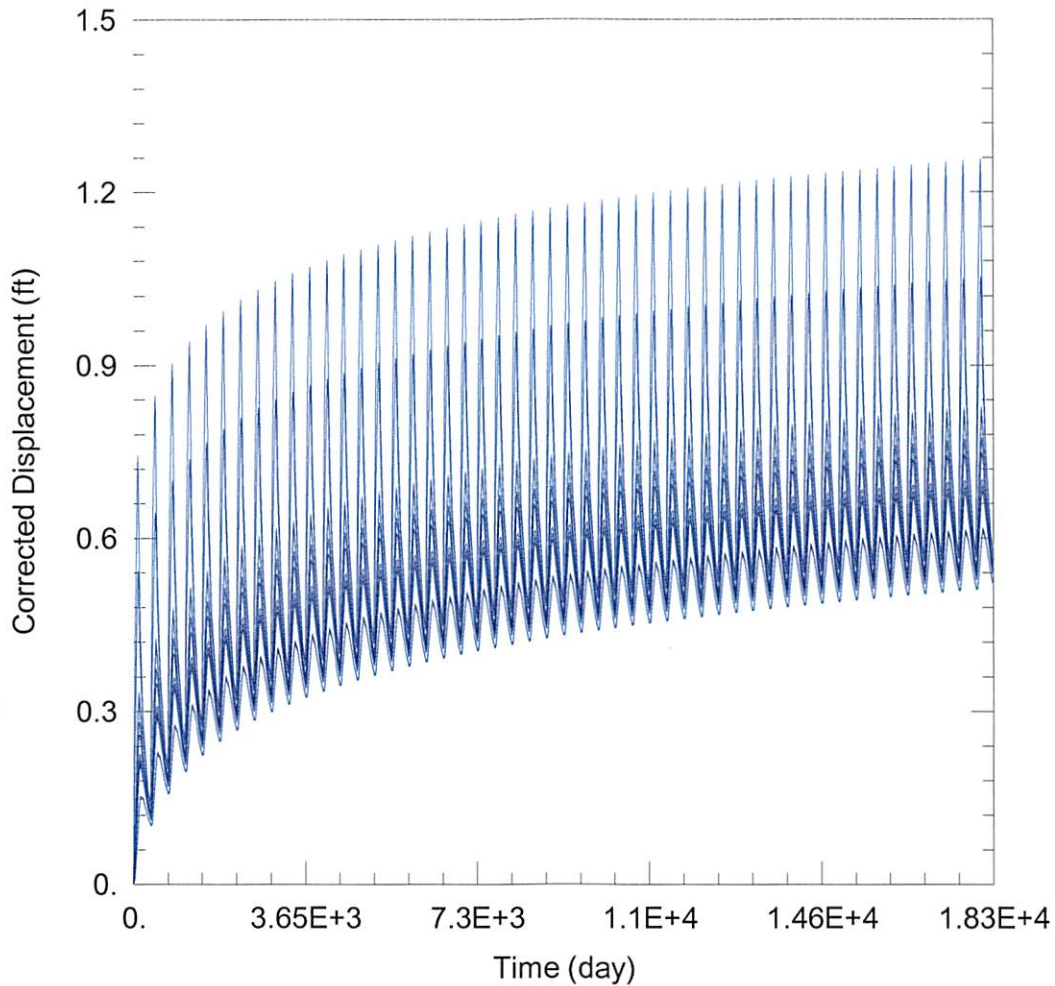
20893 ID5: Drawdown from current location = 0.61 ft
Drawdown from proposed location = 0.90 ft
Net drawdown = **0.3 ft**

Domestic 5-25-34: Drawdown from current location = 0.75 ft
 Drawdown from proposed location = 0.90 ft
 Net Drawdown = 0.2 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\22566\22566 Current.aqt
 Date: 11/09/20 Time: 16:17:58

PROJECT INFORMATION

Company: GMD 3
 Project: 22566
 Location: Finney County
 Test Well: 22566

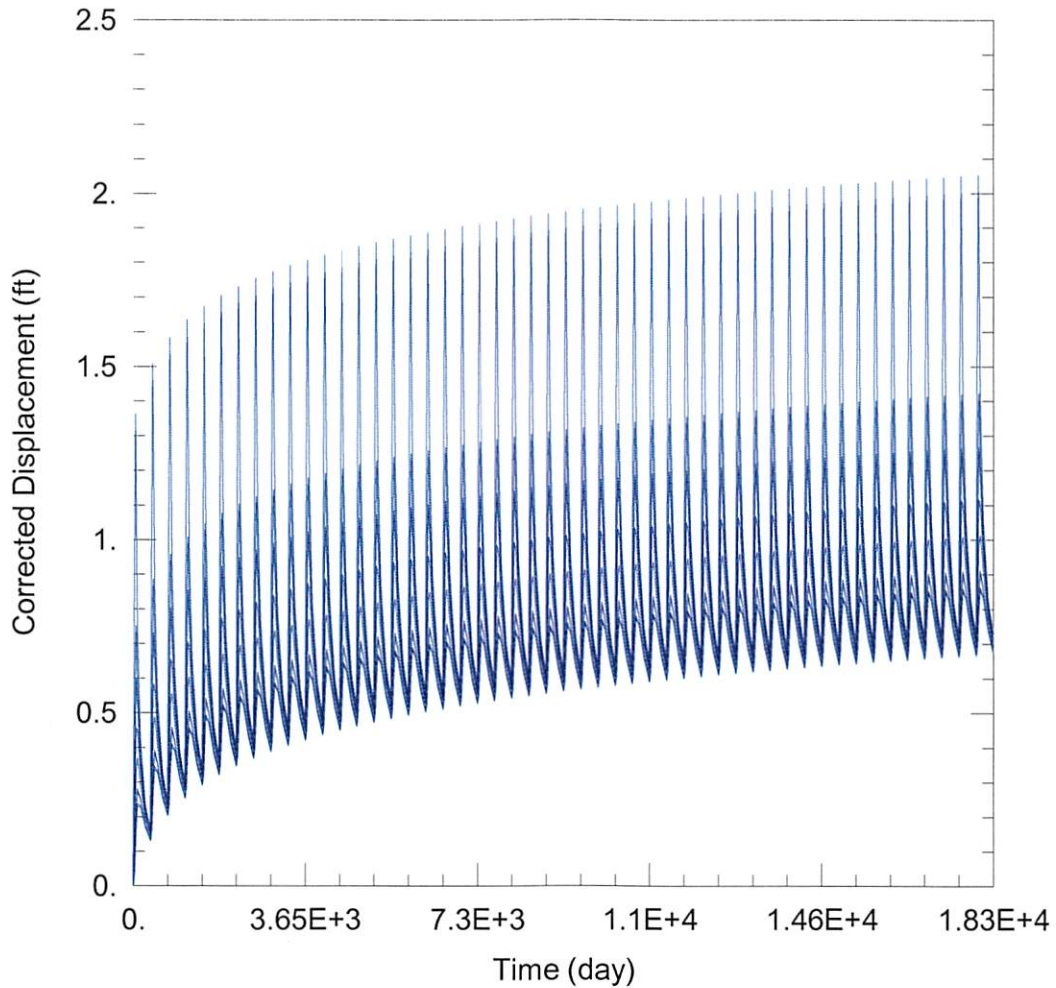
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
22566 ID4	-76338	376416

Observation Wells

Well Name	X (ft)	Y (ft)
□	-76338	376416
□ 22566 ID7	-72882	376323
□ 20894 ID2	-75459	377944
□ 20894 ID6	-73565	378597
□ 20896 ID4	-72902	380601
□ 20896 ID6	-75722	380995
□ 20774	-78190	380536
□ 21386 ID1	-78181	377878
□ 21386 ID6	-79074	374282
□ 21388	-78420	372554
□ 20893 ID2	-75430	372718
□ 20893 ID5	-71788	373370
□ Domestic 5-25-34	-79427	378948



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020_moves\22566\22566 Proposed.aqt

Date: 11/09/20

Time: 16:17:52

PROJECT INFORMATION

Company: GMD 3

Project: 22566

Location: Finney County

Test Well: 22566

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
22566 ID4	-75557	376250

Observation Wells

Well Name	X (ft)	Y (ft)
□	-75557	376250
□ 22566 ID7	-72882	376323
□ 20894 ID2	-75459	377944
□ 20894 ID6	-73565	378597
□ 20896 ID4	-72902	380601
□ 20896 ID6	-75722	380995
□ 20774	-78190	380536
□ 21386 ID1	-78181	377878
□ 21386 ID6	-79074	374282
□ 21388	-78420	372554
□ 20893 ID2	-75430	372718
□ 20893 ID5	-71788	373370
□ Domestic 5-25-34	-79427	378948