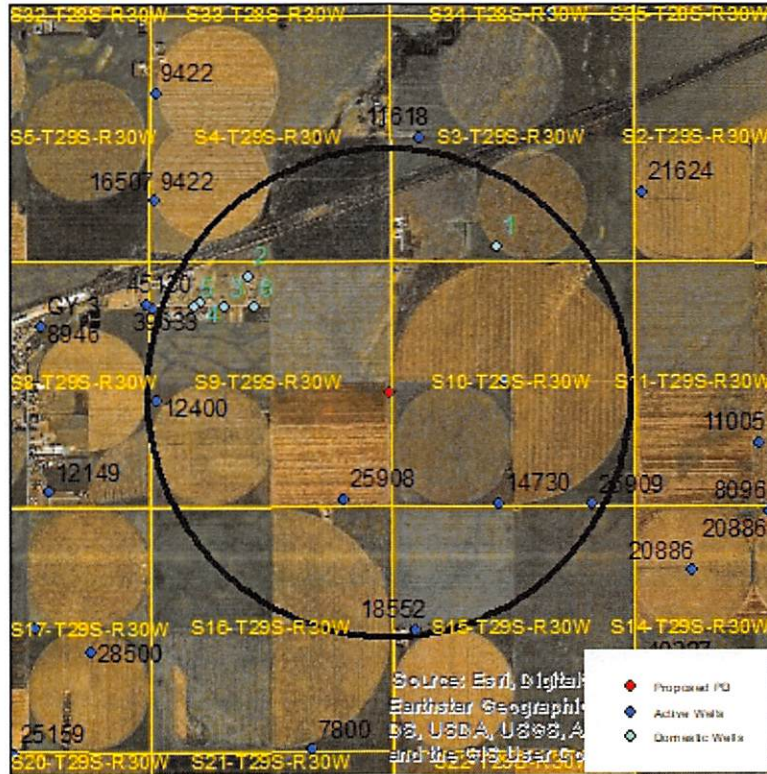


## Evaluation of proposed move for Water Right No 25908

Proposed: Move water right no. 25908 a distance of 531 ft to the northeast.



Wells within 1 mile: 12400, 19191, 14730, 25909, 18552, and 6 domestic wells, numbered on the map above.

The saturated thickness at the proposed well location is estimated to be 256 ft, based upon the driller's log and an observation well located in section 22-29-30. 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:

$$S = 0.262, T = 58,703 \text{ ft}^2/\text{day}, t_{p\text{proposed}} = 70 \text{ days}, Q_{p\text{proposed}} = 880 \text{ gpm}$$

Note that the current well has not been pumped since 2006, so there are no well-to-well interaction effects from the current well location.

Theis drawdowns were calculated as follows:

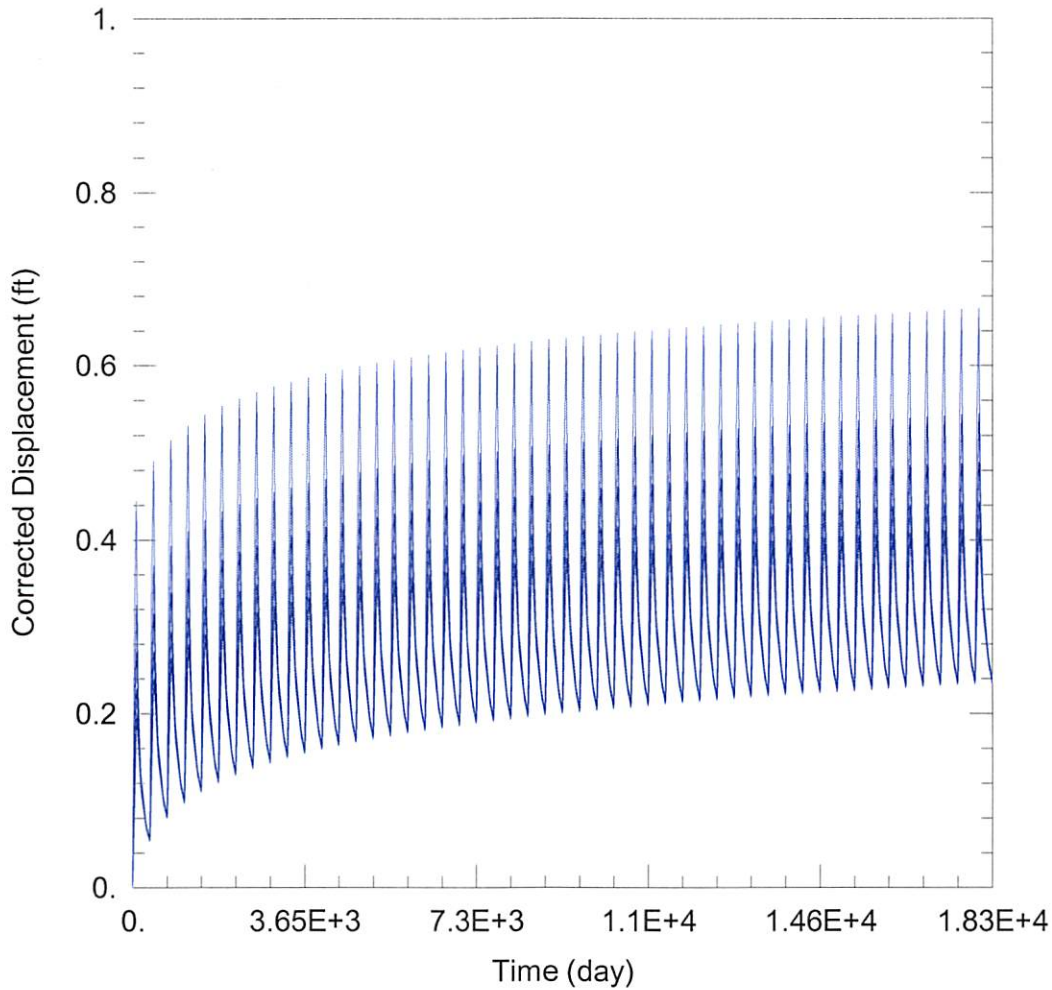
12400:	Net drawdown = 0.4 ft
19191:	Net drawdown = 0.7 ft
14730:	Net drawdown = 0.5 ft
25909:	Net drawdown = 0.4 ft
18552:	Net drawdown = 0.4 ft

Domestic 1:	Net drawdown = 0.5 ft
Domestic 2:	Net drawdown = 0.5 ft
Domestic 3:	Net drawdown = 0.4 ft
Domestic 4:	Net drawdown = 0.4 ft
Domestic 5:	Net drawdown = 0.4 ft
Domestic 6:	Net drawdown = 0.5 ft

Net drawdown does not exceed the drawdown allowance of 4.0 ft for any neighboring wells, so critical well analysis is not necessary.

**Conclusion:**

Net effects on neighboring wells as a result of this proposal are expected to be negligible. Impairment is unlikely to occur. GMD3 staff recommends approval of this application.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2019\_moves\25908\25908 Proposed.aqt

Date: 12/04/19

Time: 16:22:02

PROJECT INFORMATION

Company: GMD 3

Project: 25908

Location: Gray County

Test Well: 25908

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
25908	58409	242120

Observation Wells

Well Name	X (ft)	Y (ft)
□	58409	242120
□ 12400	53338	241913
□ 19191	60943	242370
□ 14730	60831	239705
□ 25909	62877	239698
□ 18552	58977	236980
□ Domestic 1	60772	245288
□ Domestic 2	55361	244620
□ Domestic 3	54834	243955
□ Domestic 4	54302	244060
□ Domestic 5	54175	243954
□ Domestic 6	55494	243957