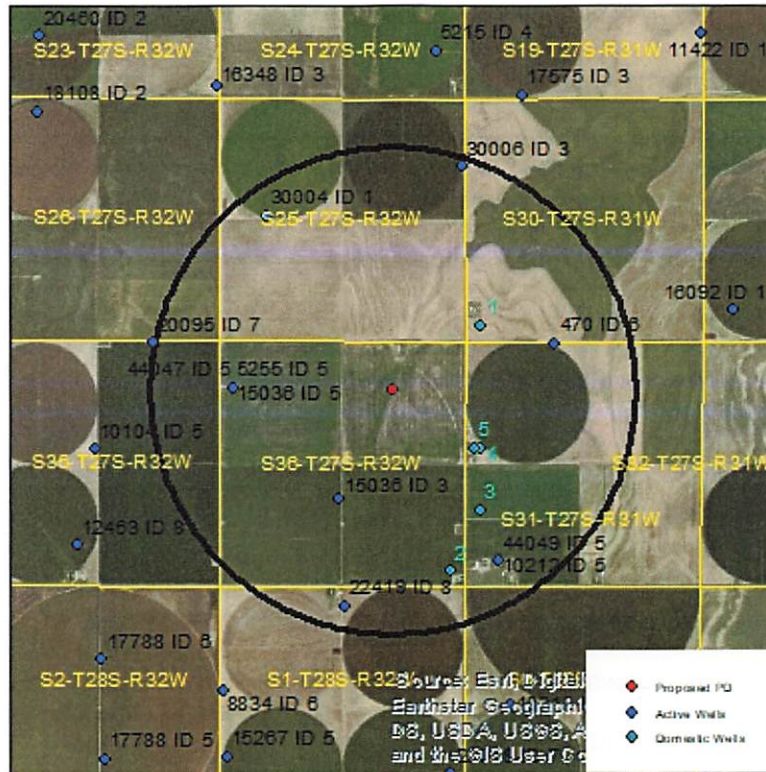


Evaluation of proposed move for Water Right No. 15036

Proposed: Move water right no. 15036 ID3 a distance of 2,606 ft to the northeast.



Wells within 1 mile: 5255 & 15036 & 44047, 30004, 30006, 470, 10212 & 44049, 22419, and five domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 279 ft, based upon the driller's log and an observation well in section 36-27-32. 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:

$S = 0.1173$, $T = 14,804 \text{ ft}^2/\text{day}$,

$t_{p_{\text{current}}} = 151 \text{ days}$ (based on average use and observed rate), $Q_{\text{current}} = 322 \text{ gpm}$ (based on 2016 field inspection), $t_{p_{\text{proposed}}} = 104.5 \text{ days}$, $Q_{\text{proposed}} = 1470 \text{ gpm}$

Theis drawdowns were calculated as follows:

5255 & 15036 & 44047: Drawdown from current location = 1.06 ft

Drawdown from proposed location = 3.53 ft

Net drawdown = 2.5 ft

30004: Drawdown from current location = 0.74 ft
Drawdown from proposed location = 2.93 ft
Net drawdown = **2.2 ft**

30006: Drawdown from current location = 0.66 ft
Drawdown from proposed location = 2.75 ft
Net drawdown = **2.1 ft**

470: Drawdown from current location = 0.78 ft
Drawdown from proposed location = 3.43 ft
Net drawdown = **2.7 ft**

10212 & 44049: Drawdown from current location = 1.00 ft
Drawdown from proposed location = 3.08 ft
Net drawdown = **2.1 ft**

22419: Drawdown from current location = 1.28 ft
Drawdown from proposed location = 2.86 ft
Net drawdown = **1.6 ft**

Domestic 1: Drawdown from current location = 0.87 ft
Drawdown from proposed location = 4.54 ft
Net drawdown = **3.7 ft**

Domestic 2: Drawdown from current location = 1.15 ft
Drawdown from proposed location = 3.19 ft
Net drawdown = **2.0 ft**

Domestic 3: Drawdown from current location = 1.11 ft
Drawdown from proposed location = 3.71 ft
Net drawdown = **2.6 ft**

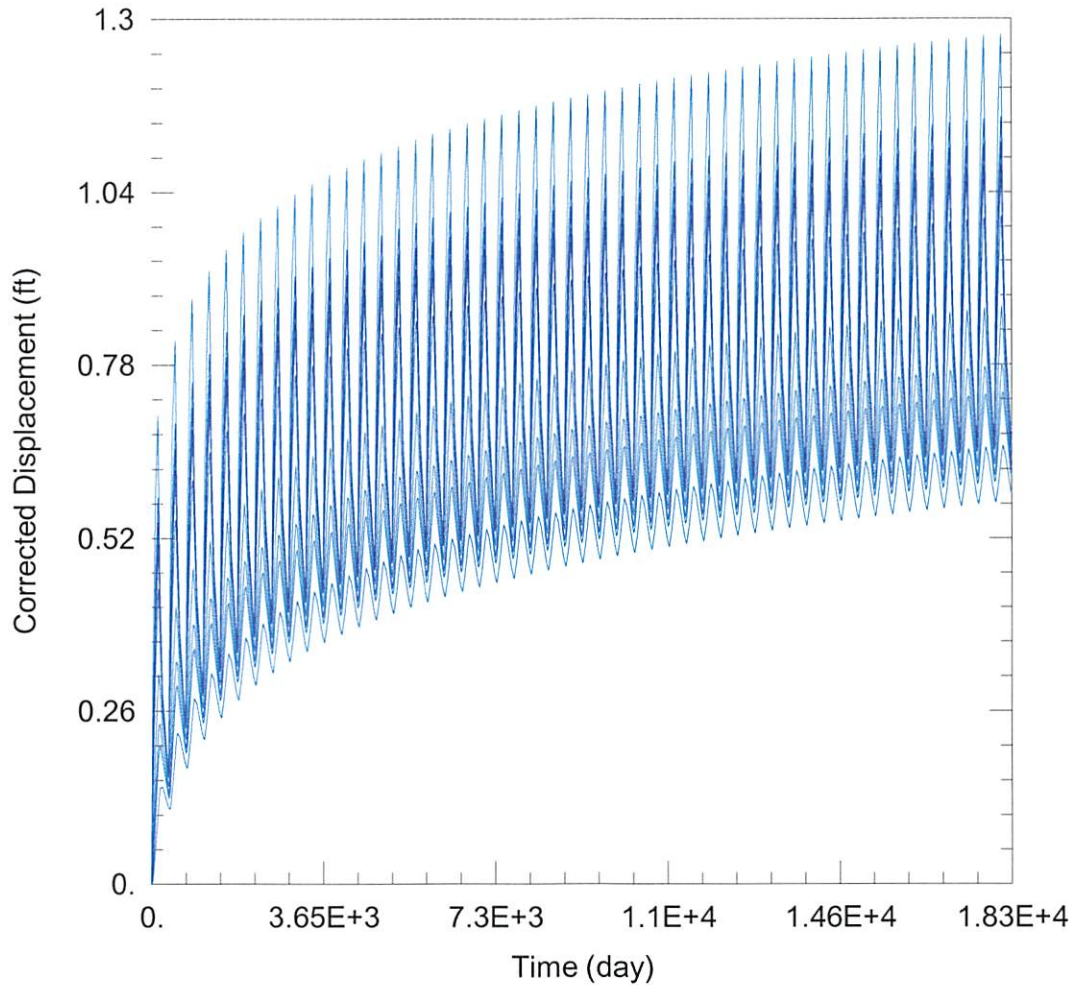
Domestic 4: Drawdown from current location = 1.08 ft
Drawdown from proposed location = 4.63 ft
Net drawdown = **3.5 ft**

Domestic 5: Drawdown from current location = 1.11 ft
 Drawdown from proposed location = 4.79 ft
 Net drawdown = **3.7 ft**

Net drawdown does not exceed the drawdown allowance of 4.0 ft for any well within 1 mile of the proposed location. Therefore, critical well analysis is not necessary.

Conclusion:

The proposed move is likely to create minimal effects on neighboring wells and is unlikely to cause impairment. GMD3 staff recommends approval of this proposal.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\15036\15036 Current.aqt

Date: 04/01/22

Time: 15:29:19

PROJECT INFORMATION

Company: GMD 3

Project: 15036

Location: Haskell County

WELL DATA

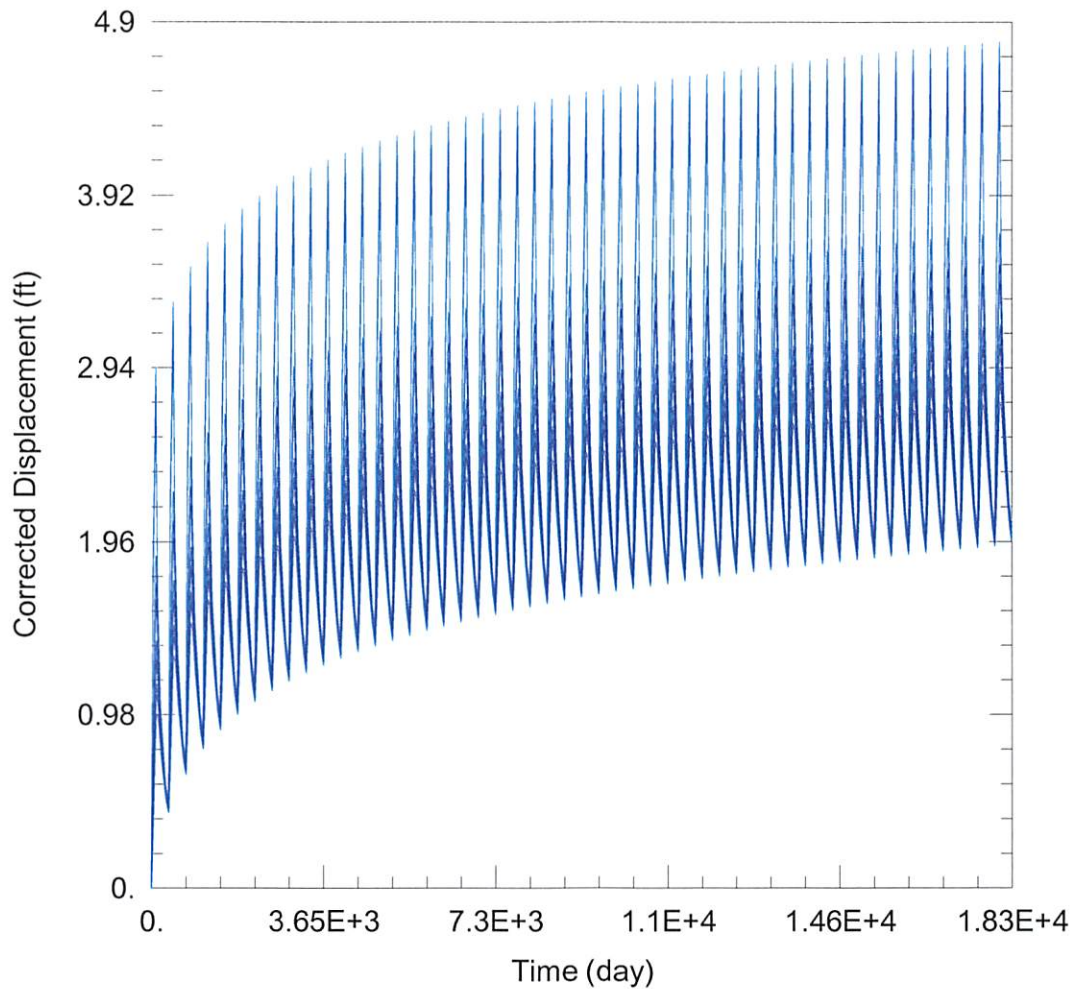
Pumping Wells

Well Name	X (ft)	Y (ft)
15036 ID3	8244	283848

Observation Wells

Well Name	X (ft)	Y (ft)
□	8244	283848
□ 5255 & 15036 & 44047	5910	286247
□ 30004	6670	289954
□ 30006	10924	291029
□ 470	12923	287178
□ 10212 & 44049	11692	282498
□ 22419	8351	281495
□ Domestic 1	11309	287578
□ Domestic 2	10648	282258
□ Domestic 3	11300	283587
□ Domestic 4	11304	284919
□ Domestic 5	11156	284933

SOLUTION



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\15036\15036 Proposed.aqt

Date: 04/01/22

Time: 15:29:10

PROJECT INFORMATION

Company: GMD 3

Project: 15036

Location: Haskell County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
15036 ID3	9397	286185

Observation Wells

Well Name	X (ft)	Y (ft)
□	9397	286185
□ 5255 & 15036 & 44047	5910	286247
□ 30004	6670	289954
□ 30006	10924	291029
□ 470	12923	287178
□ 10212 & 44049	11692	282498
□ 22419	8351	281495
□ Domestic 1	11309	287578
□ Domestic 2	10648	282258
□ Domestic 3	11300	283587
□ Domestic 4	11304	284919
□ Domestic 5	11156	284933

SOLUTION