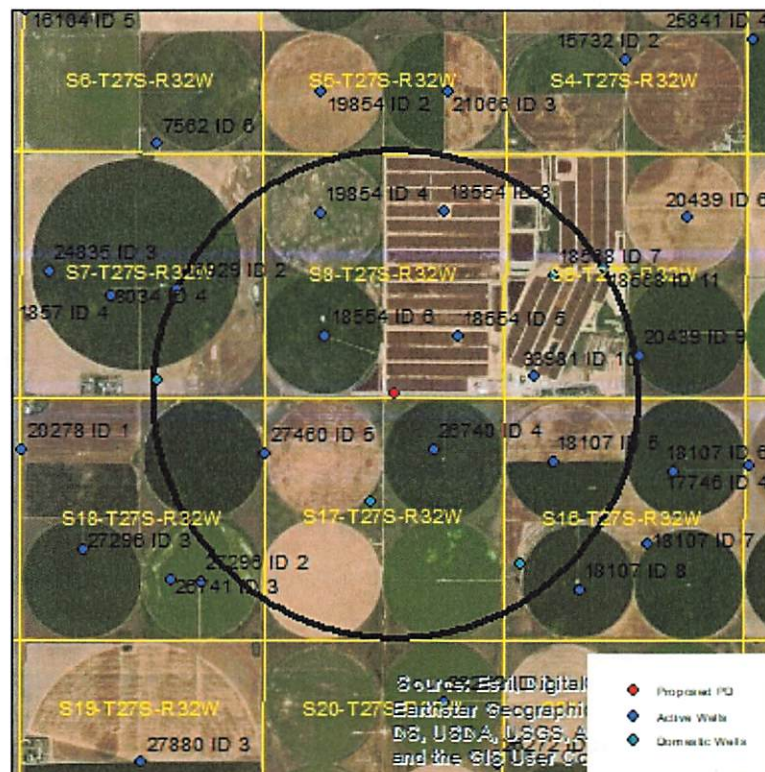


Evaluation of proposed move for Water Right No. 18554

Proposed: Move water right no. 18554 to a new well location, a distance of 1,848 ft to the southwest.



Wells within 1 mile: 18554 ID6, 18554 ID8, 16929, 19854, 18568 ID7, 33981, 27460, 18107, a domestic well in section 7-27-32, a domestic well in section 17-27-32, and a domestic well in section 16-27-32.

The saturated thickness at the proposed well location is estimated to be 207 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:

$S = 0.1327$, $T = 8329 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 219 \text{ days}$ (assumed 60% operation time), $Q_{\text{current}} = 72 \text{ gpm}$ (based on average use at 219 days), $tp_{\text{proposed}} = 35 \text{ days}$, $Q_{\text{proposed}} = 695 \text{ gpm}$

Theis drawdowns were calculated as follows:

| | |
|------------|---|
| 18554 ID6: | Drawdown from current location = 0.51 ft |
| | Drawdown from proposed location = 1.39 ft |
| | Net drawdown = 0.9 ft |
| 18554 ID8: | Drawdown from current location = 0.52 ft |
| | Drawdown from proposed location = 0.73 ft |
| | Net drawdown = 0.2 ft |

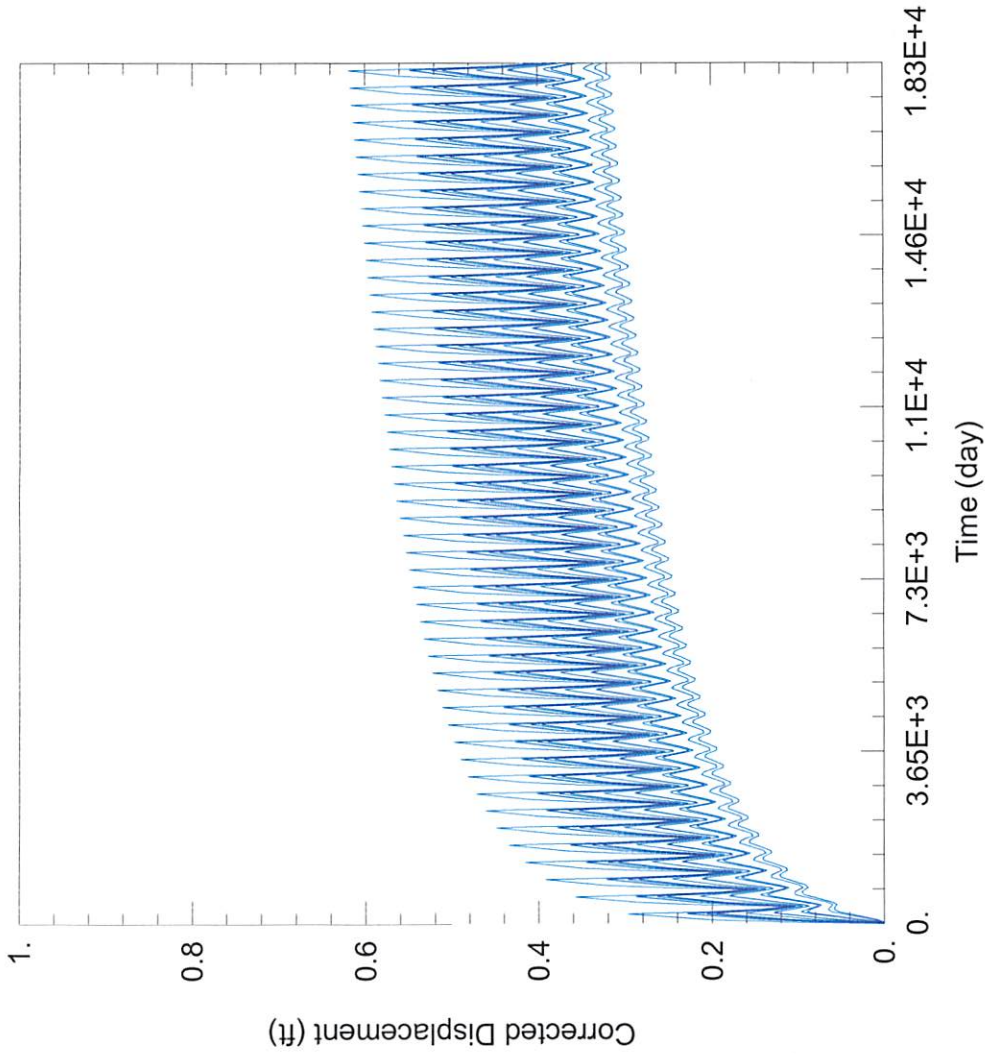
| | |
|--------------------|---|
| 16929: | Drawdown from current location = 0.35 ft Drawdown from proposed location = 0.61 ft Net drawdown = 0.3 ft |
| 19854: | Drawdown from current location = 0.44 ft Drawdown from proposed location = 0.71 ft Net drawdown = 0.3 ft |
| 18568 ID7: | Drawdown from current location = 0.55 ft Drawdown from proposed location = 0.70 ft Net drawdown = 0.2 ft |
| 33981: | Drawdown from current location = 0.62 ft Drawdown from proposed location = 0.92 ft Net drawdown = 0.3 ft |
| 27460: | Drawdown from current location = 0.39 ft Drawdown from proposed location = 0.90 ft Net drawdown = 0.5 ft |
| 26740: | Drawdown from current location = 0.54 ft Drawdown from proposed location = 1.89 ft Net drawdown = 1.3 ft |
| 18107: | Drawdown from current location = 0.47 ft Drawdown from proposed location = 0.78 ft Net drawdown = 0.3 ft |
| Domestic 7-27-32: | Drawdown from current location = 0.33 ft Drawdown from proposed location = 0.61 ft Net drawdown = 0.3 ft |
| Domestic 17-27-32: | Drawdown from current location = 0.43 ft Drawdown from proposed location = 1.18 ft Net drawdown = 0.7 ft |

Domestic 16-27-32: Drawdown from current location = 0.38 ft
 Drawdown from proposed location = 0.67 ft
 Net drawdown = **0.3 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 appears unlikely to cause impairment. Any concerned neighbors should contact GMD3 at (620) 275-7147 or the Division of Water Resources at (620) 276-2901.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\18554\18554 Current.aqt

Date: 06/08/22

Time: 15:33:09

PROJECT INFORMATION

Company: GMD 3

Project: 18554

Location: Haskell County

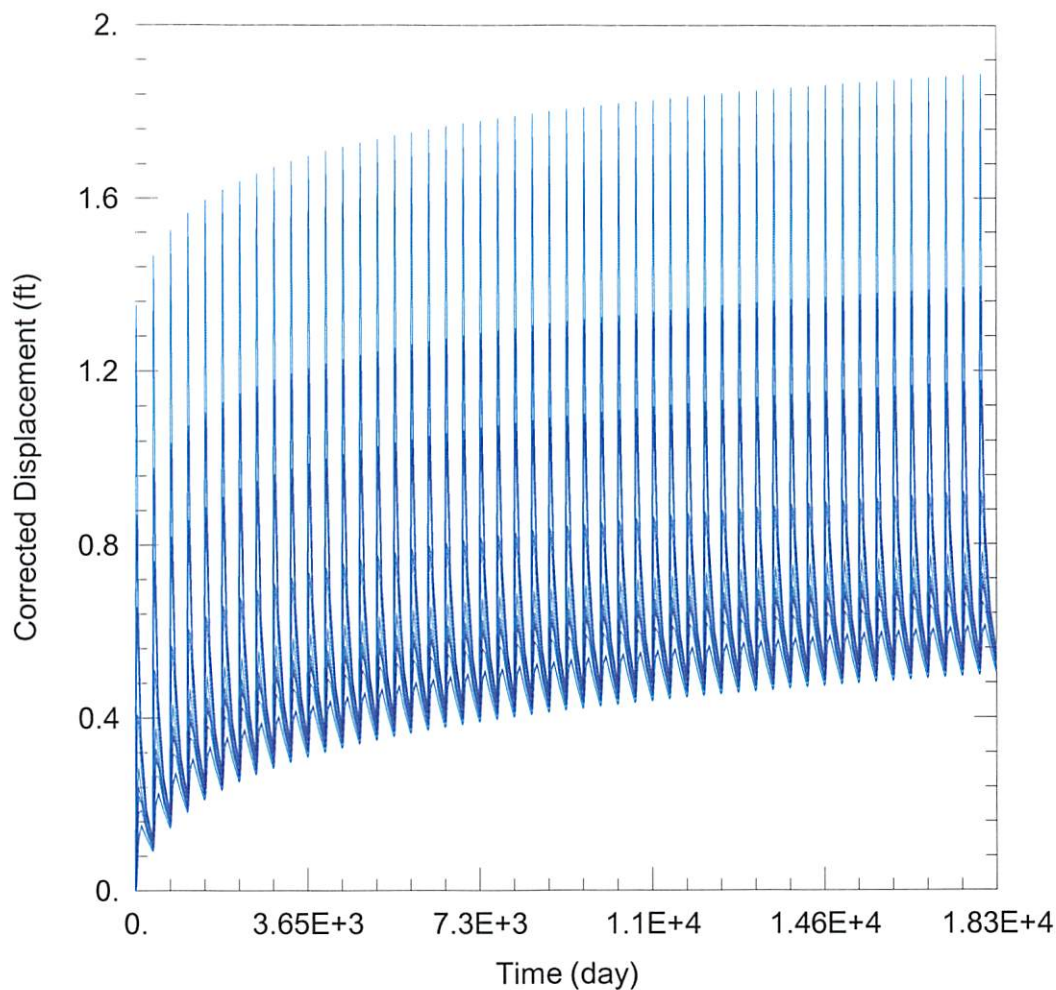
WELL DATA

Pumping Wells

| Well Name | X (ft) | Y (ft) |
|-----------|--------|--------|
| 18554 ID5 | -11154 | 304478 |

Observation Wells

| Well Name | X (ft) | Y (ft) |
|---------------------|--------|--------|
| □ | -11154 | 304478 |
| □ 18554 ID6 | -14046 | 304497 |
| □ 18554 ID8 | -11471 | 307202 |
| □ 16929 | -17257 | 305500 |
| □ 19854 | -14161 | 307148 |
| □ 18568 ID7 | -9070 | 305806 |
| □ 33981 | -9505 | 303607 |
| □ 27460 | -15350 | 301956 |
| □ 26740 | -11686 | 302028 |
| □ 18107 | -9048 | 301757 |
| □ Domestic 7-27-32 | -17690 | 303531 |
| □ Domestic 17-27-32 | -13060 | 300880 |
| □ Domestic 16-27-32 | -9790 | 299553 |



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\18554\18554 Proposed.aqt

Date: 06/08/22

Time: 15:33:03

PROJECT INFORMATION

Company: GMD 3

Project: 18554

Location: Haskell County

WELL DATA

Pumping Wells

| Well Name | X (ft) | Y (ft) |
|-----------|--------|--------|
| 18554 ID5 | -12522 | 303236 |

Observation Wells

| Well Name | X (ft) | Y (ft) |
|---------------------|--------|--------|
| □ | -12522 | 303236 |
| □ 18554 ID6 | -14046 | 304497 |
| □ 18554 ID8 | -11471 | 307202 |
| □ 16929 | -17257 | 305500 |
| □ 19854 | -14161 | 307148 |
| □ 18568 ID7 | -9070 | 305806 |
| □ 33981 | -9505 | 303607 |
| □ 27460 | -15350 | 301956 |
| □ 26740 | -11686 | 302028 |
| □ 18107 | -9048 | 301757 |
| □ Domestic 7-27-32 | -17690 | 303531 |
| □ Domestic 17-27-32 | -13060 | 300880 |
| □ Domestic 16-27-32 | -9790 | 299553 |