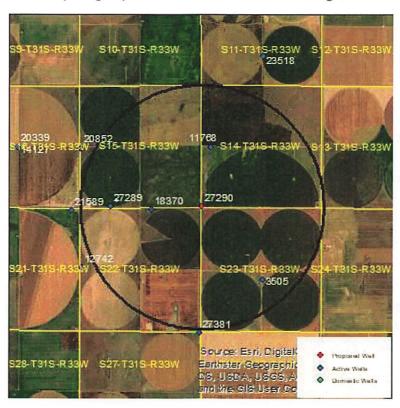
Evaluation of proposed move for Water Right No. 11768

Proposed: Move water right no. 11768 to the well currently authorized under water right no. 27290. Total authority on this well will be increased from 400 AF to 640 AF. This proposed change requires a waiver of rules as minimum spacing requirements are not met to water right no. 18370.



Wells within 1 mile: 27289, 18370, 3505, and a domestic well in section 15-31-33.

The saturated thickness at the proposed well location is estimated to be 196 ft, based upon the GMD3 model. For saturated thickness between 150 ft and 200 ft, the drawdown allowance is 3.5 ft.

50 year Theis Analysis: The following values were used to run the analysis:

$$S = 0.1774$$
, $T = 13,081$ ft²/day,

11768: tp_{current} = 0 days, Q_{current} = 0 gpm, tp_{proposed} = 0 days, Q_{proposed} = 0 gpm

27290: $tp_{current}$ = 89 days (based on average use and reported rate), $Q_{current}$ = 900 gpm (based on 2017 water use report), $tp_{proposed}$ = 161 days, $tq_{proposed}$ = 900 gpm

Theis drawdowns were calculated as follows:

27289: Drawdown from current location = 1.63 ft

Drawdown from proposed location = 2.78 ft

Net drawdown = 1.1 ft

18370: Drawdown from current location = 2.47 ft

Drawdown from proposed location = 3.85 ft

Net drawdown = 1.4 ft

3505: Drawdown from current location = 1.59 ft

Drawdown from proposed location = 2.72 ft

Net drawdown = 1.1 ft

Domestic 15-31-33: Drawdown from current location = 1.70 ft

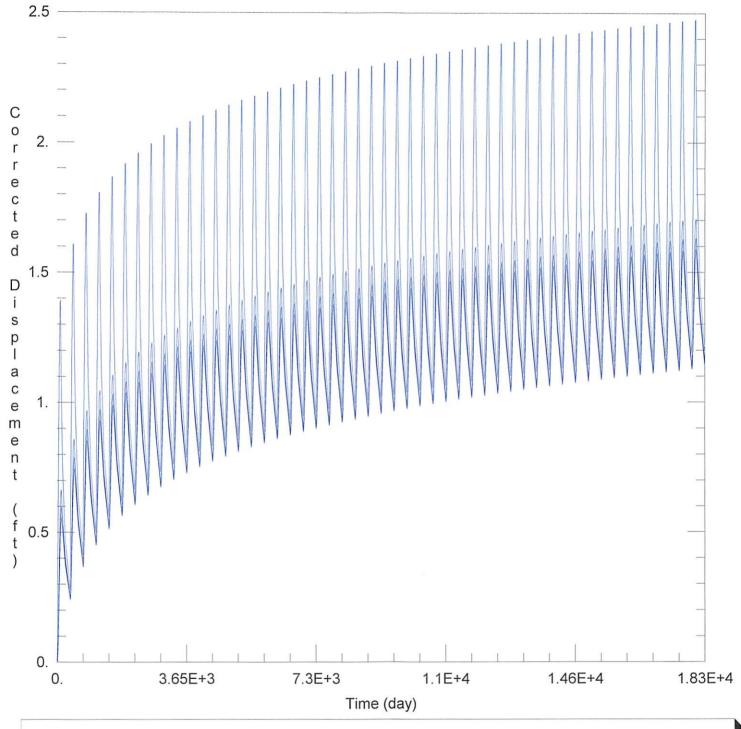
Drawdown from proposed location = 2.89 ft

Net drawdown = 1.2 ft

Net drawdown does not exceed the drawdown allowance of 3.5 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\2024 moves\11768\11768 Current.aqt

Date: 03/15/24 Time: 11:28:27

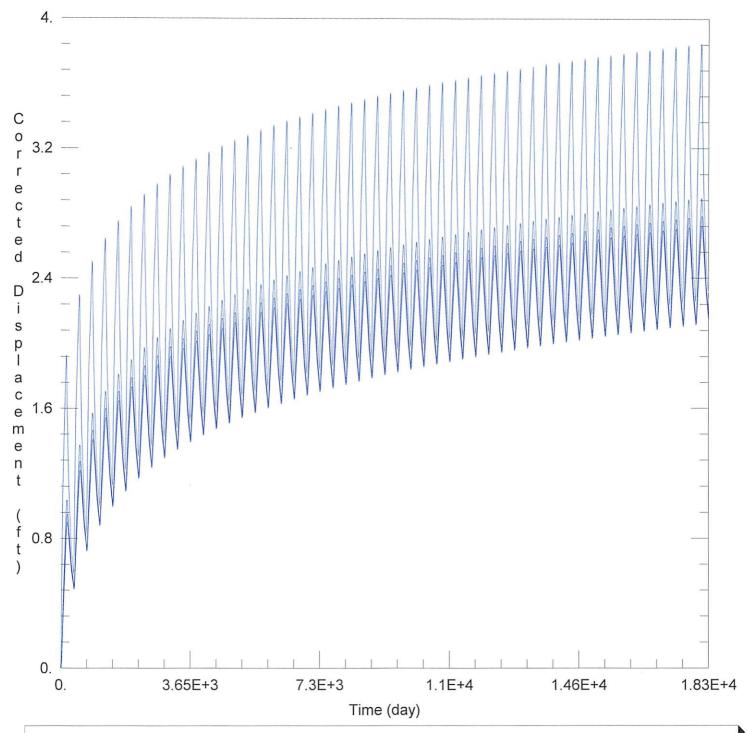
PROJECT INFORMATION

Company: GMD 3 Project: 11768

Location: Seward County

WELL DATA

| Pumping Wells | | | Observation vveils | | |
|---------------|--------|--------|--------------------|--------|--------|
| Well Name | X (ft) | Y (ft) | Well Name | X (ft) | Y (ft) |
| 27290 | -25465 | 170995 | | -25465 | 170995 |
| | | | n 27280 | -29407 | 170005 |



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024_moves\11768\11768 Proposed.aqt

Date: 03/15/24 Time: 11:28:21

PROJECT INFORMATION

Company: GMD 3 Project: 11768

Location: Seward County

WELL DATA

| Pumping Wells | | | Observation Wells | | |
|---------------|--------|--------|-------------------|--------|--------|
| Well Name | X (ft) | Y (ft) | Well Name | X (ft) | Y (ft) |
| 27290 | -25465 | 170995 | | -25465 | 170995 |
| | | | - 07000 | 20407 | 47000E |