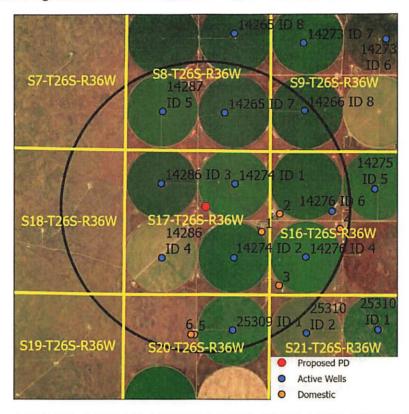
#### Evaluation of proposed move for Water Right No. 14274

Proposed: Move water right no. 14274 ID1 a distance of 1,365 ft to the southwest to a new location.



Wells within 1 mile: 14274 ID2, 14286 ID3, 14286 ID4, 14287, 14265, 14266, 14276 ID4, 14276 ID6, 25309, and six domestic wells.

The saturated thickness at the proposed well location is estimated to be 116.7 ft, based upon the GMD3 model. For saturated thickness between 100 and 125 ft, the drawdown allowance is 2.5 ft.

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

S = 0.078, T = 14,503 ft<sup>2</sup>/day, tp<sub>current</sub> = 88 days (based on average use and observed rate),

Q<sub>current</sub> = 600 gpm (based on 2015 field inspection), tp<sub>proposed</sub> = 57 days, Q<sub>proposed</sub> = 1025 gpm

Theis drawdowns were calculated as follows:

14274 ID2:

Drawdown from current location = 1.74 ft

Drawdown from proposed location = 2.19 ft

Net drawdown = **0.4** ft

14286 ID3:

Drawdown from current location = 1.75 ft

Drawdown from proposed location = 2.20 ft

Net drawdown = 0.5 ft

| 14286 ID4: | Drawdown from current location = 1.37 ft |
|------------|--|
| ITEOU IDA. |  |

Drawdown from proposed location = 1.64 ft

Net drawdown = 0.3

14287: Drawdown from current location = 1.39 ft

Drawdown from proposed location = 1.67 ft

Net drawdown = 0.3

14265: Drawdown from current location = 1.79 ft

Drawdown from proposed location = 2.26 ft

Net drawdown = 0.5

14266: Drawdown from current location = 1.41 ft

Drawdown from proposed location = 1.68 ft

Net drawdown = 0.3

14276 ID4: Drawdown from current location = 1.39 ft

Drawdown from proposed location = 1.67 ft

Net drawdown = 0.3

14276 ID6: Drawdown from current location = 1.40 ft

Drawdown from proposed location = 1.68 ft

Net drawdown = 0.3

25309: Drawdown from current location = 1.09 ft

Drawdown from proposed location = 1.24 ft

Net drawdown = 0.15

Domestic 1: Drawdown from current location = 2.10 ft

Drawdown from proposed location = 2.77 ft

Net drawdown = 0.7 ft

Domestic 2: Drawdown from current location = 2.12 ft

Drawdown from proposed location = 2.80 ft

Net drawdown = 0.7 ft

Domestic 3: Drawdown from current location = 1.32 ft

Drawdown from proposed location = 1.57 ft

Net drawdown = 0.3 ft

Domestic 4: Drawdown from current location = 1.30 ft

Drawdown from proposed location = 1.54 ft

Net drawdown = 0.2 ft

Domestic 5: Drawdown from current location = 1.04 ft

Drawdown from proposed location = 1.17 ft

Net drawdown = 0.1 ft

Domestic 6: Drawdown from current location = 1.03 ft

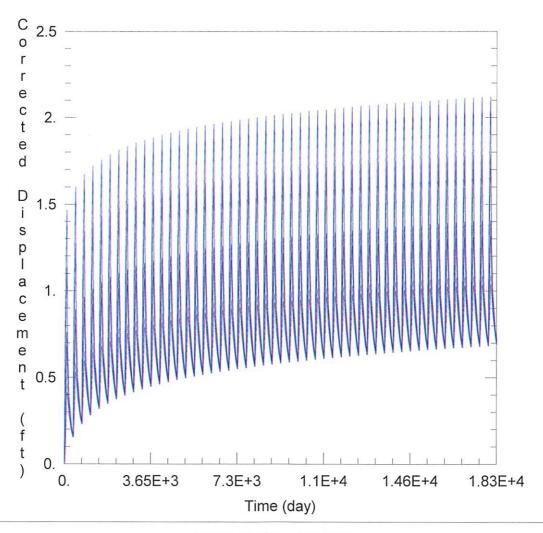
Drawdown from proposed location = 1.16 ft

Net drawdown = **0.1** ft

Net drawdown does not exceed the drawdown allowance of 2.5 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\scanstation\Documents\move requests\14274\14274 current.aqt

Date: 11/21/24 Time: 14:36:57

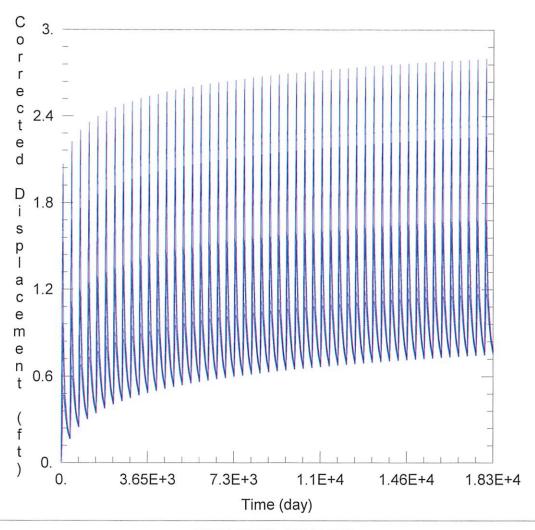
#### PROJECT INFORMATION

Test Well: 14274

## WELL DATA

| Pumping Wells |         |        |  |  |
|---------------|---------|--------|--|--|
| Well Name     | X (ft)  | Y (ft) |  |  |
| 14274 ID1     | -137800 | 333779 |  |  |

| Observation Wells            |         |        |  |  |
|------------------------------|---------|--------|--|--|
| Well Name                    | X (ft)  | Y (ft) |  |  |
|                              | -137800 | 333779 |  |  |
| □ 14274 ID2                  | -137843 | 331081 |  |  |
| □ 14286 ID3                  | -140487 | 333800 |  |  |
| □ 14286 ID4                  | -140472 | 331087 |  |  |
| □ 14287 ID5                  | -140430 | 336403 |  |  |
| □ 14265 ID7                  | -138180 | 336355 |  |  |
| □ 14266 ID8                  | -135270 | 336428 |  |  |
| □ 14276 ID4                  | -135212 | 331104 |  |  |
| □ 14276 ID6                  | -134259 | 332778 |  |  |
| <b>25309</b>                 | -137885 | 328455 |  |  |
| Domestic 1                   | -136835 | 332032 |  |  |
| Domestic 2                   | -136170 | 332681 |  |  |
| Domestic 3                   | -136187 | 330073 |  |  |
| <ul><li>Domestic 4</li></ul> | -133971 | 332136 |  |  |
| Domestic 5                   | -139272 | 328298 |  |  |
| □ Domestic 6                 | -139402 | 328299 |  |  |



# WELL TEST ANALYSIS

Data Set: C:\Users\scanstation\Documents\move requests\14274\14274 proposed.aqt

Date: 11/21/24 Time: 14:37:01

#### PROJECT INFORMATION

Test Well: 14274

## WELL DATA

| F         | umping Wells |        |
|-----------|--------------|--------|
| Well Name | X (ft)       | Y (ft) |
| 14274 ID1 | -137800      | 333779 |

| Observation Wells            |         |        |  |  |
|------------------------------|---------|--------|--|--|
| Well Name                    | X (ft)  | Y (ft) |  |  |
|                              | -137800 | 333779 |  |  |
| □ 14274 ID2                  | -137843 | 331081 |  |  |
| □ 14286 ID3                  | -140487 | 333800 |  |  |
| □ 14286 ID4                  | -140472 | 331087 |  |  |
| □ 14287 ID5                  | -140430 | 336403 |  |  |
| □ 14265 ID7                  | -138180 | 336355 |  |  |
| □ 14266 ID8                  | -135270 | 336428 |  |  |
| □ 14276 ID4                  | -135212 | 331104 |  |  |
| □ 14276 ID6                  | -134259 | 332778 |  |  |
| <ul><li>25309</li></ul>      | -137885 | 328455 |  |  |
| <ul><li>Domestic 1</li></ul> | -136835 | 332032 |  |  |
| <ul><li>Domestic 2</li></ul> | -136170 | 332681 |  |  |
| <ul><li>Domestic 3</li></ul> | -136187 | 330073 |  |  |
| <ul><li>Domestic 4</li></ul> | -133971 | 332136 |  |  |
| <ul><li>Domestic 5</li></ul> | -139272 | 328298 |  |  |
| <ul><li>Domestic 6</li></ul> | -139402 | 328299 |  |  |