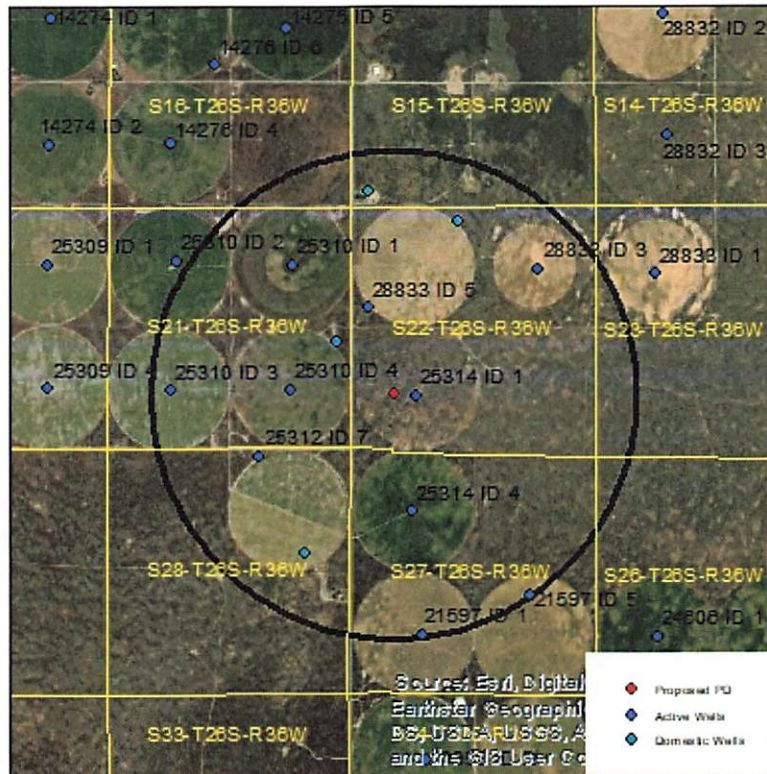


## Evaluation of proposed move for Water Right No. 25314 D2

Proposed: Move water right no. 25314 D2 ID1 to a new well location, a distance of 479 ft to the northwest.



Wells within 1 mile: 25310 ID1, 25310 ID3, 25310 ID4, 28833 ID3, 28833 ID5, 25312, 25314 ID4, 21597 ID1, 21597 ID5, a domestic well in section 15-26-36, a domestic well in section 21-26-36, a domestic well in section 22-26-36, and a domestic well in section 28-26-36.

The saturated thickness at the proposed well location is estimated to be 154 ft, based upon the driller's log and an observation well in section 21-26-36. 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:

$S = 0.2329$ ,  $T = 17,184 \text{ ft}^2/\text{day}$ ,  $t_{p\text{proposed}} = 61.4 \text{ days}$ ,  $Q_{p\text{proposed}} = 995 \text{ gpm}$

Theis drawdowns were calculated as follows:

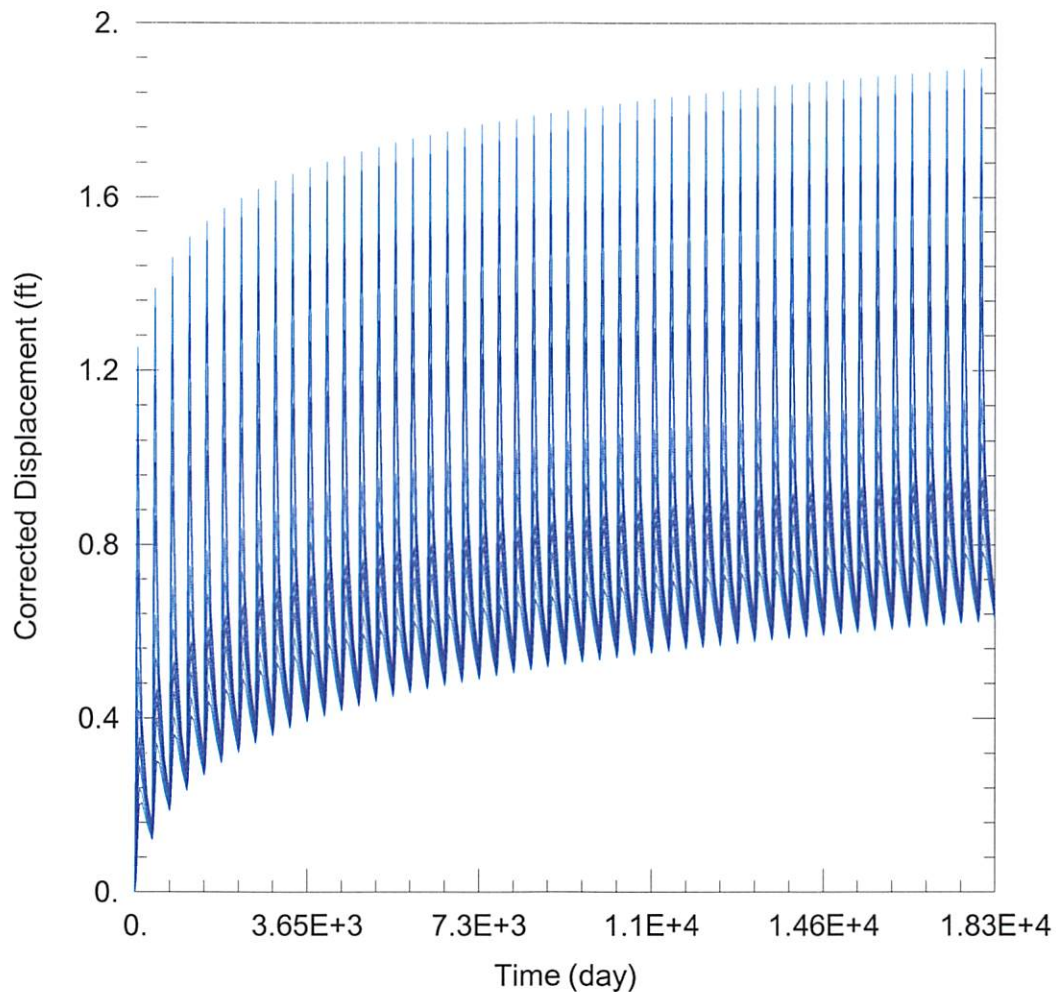
25310 ID1:	Net drawdown = <b>1.0 ft</b>
25310 ID3:	Net drawdown = <b>0.8 ft</b>
25310 ID4:	Net drawdown = <b>1.5 ft</b>
28833 ID3:	Net drawdown = <b>0.9 ft</b>
28833 ID5:	Net drawdown = <b>1.7 ft</b>

<b>25312:</b>	<b>Net drawdown = 1.1 ft</b>
<b>25314 ID4:</b>	<b>Net drawdown = 1.4 ft</b>
<b>21597 ID1:</b>	<b>Net drawdown = 0.8 ft</b>
<b>21597 ID5:</b>	<b>Net drawdown = 0.8 ft</b>
<b>Domestic 15-26-36:</b>	<b>Net drawdown = 0.9 ft</b>
<b>Domestic 21-26-36:</b>	<b>Net drawdown = 1.9 ft</b>
<b>Domestic 22-26-36:</b>	<b>Net drawdown = 0.9 ft</b>
<b>Domestic 28-26-36:</b>	<b>Net drawdown = 1.0 ft</b>

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\2022\_moves\25314\_D2\25314.aqt  
 Date: 06/20/22 Time: 15:17:22

### PROJECT INFORMATION

Company: GMD 3  
 Project: 25314 D2  
 Location: Kearny County

### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
25314	-130342	325672

#### Observation Wells

Well Name	X (ft)	Y (ft)
□ 25310 ID1	-130342	325672
□ 25310 ID3	-132566	328458
□ 25310 ID4	-135210	325747
□ 28833 ID3	-132579	325785
□ 28833 ID5	-127191	328367
□ 25312	-130894	327536
□ 25314 ID4	-133269	324335
□ 21597 ID1	-129962	323147
□ 21597 ID5	-129743	320491
□ 21597 ID5	-127397	321343
□ Domestic 15-26-36	-127397	321343
□ Domestic 15-26-36	-130912	330064
□ Domestic 21-26-36	-131582	326831
□ Domestic 22-26-36	-128925	329414
□ Domestic 28-26-36	-132274	322235