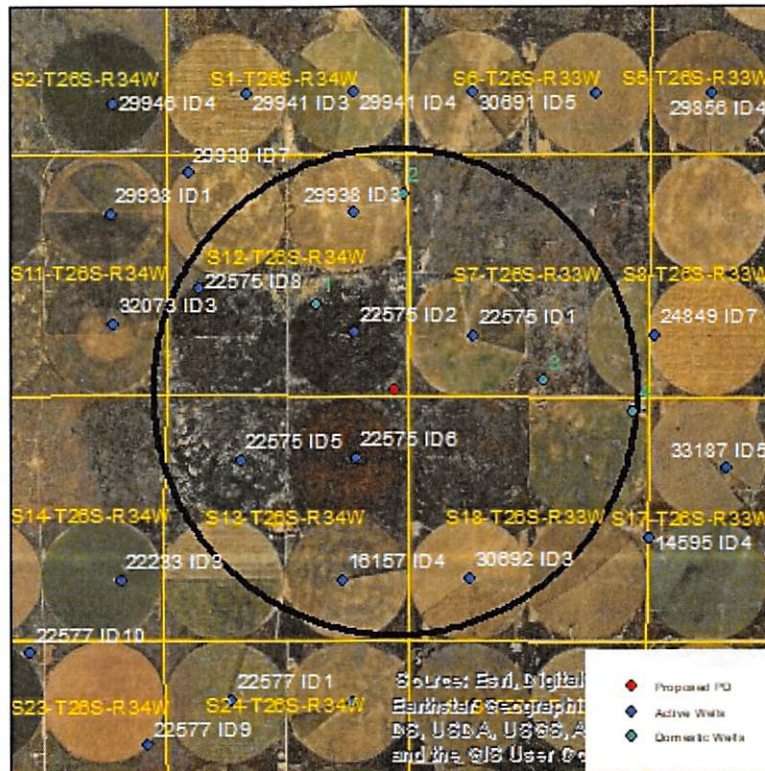


## Evaluation of proposed move for Water Right No 22575 D1 ID2

Proposed: Move water right no. 22575 D1 ID2 a distance of 1546 ft to the southeast.



Wells within 1 mile: 22575 D1 ID8, 22575 D1 ID6, 22575 D1 ID5, 22575 D2 ID1, 29938 ID3, 16157 ID4, 30692 ID3, and 4 domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 222 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:

$S = 0.2961$ ,  $T = 11,922 \text{ ft}^2/\text{day}$ ,  $t_{p\text{proposed}} = 65 \text{ days}$ ,  $Q_{\text{proposed}} = 950 \text{ gpm}$  (no current use in past 10 years)

Theis drawdowns were calculated as follows:

22575 D1 ID8:	Net drawdown = <b>1.0 ft</b>
22575 D1 ID6:	Net drawdown = <b>2.1 ft</b>
22575 D1 ID5:	Net drawdown = <b>1.2 ft</b>
22575 D2 ID1:	Net drawdown = <b>1.8 ft</b>
29938 ID3:	Net drawdown = <b>1.1 ft</b>
16157 ID4:	Net drawdown = <b>1.1 ft</b>
30692 ID3:	Net drawdown = <b>1.0 ft</b>

Domestic 1: Net drawdown = **1.6 ft**

Domestic 2: Net drawdown = **1.1 ft**

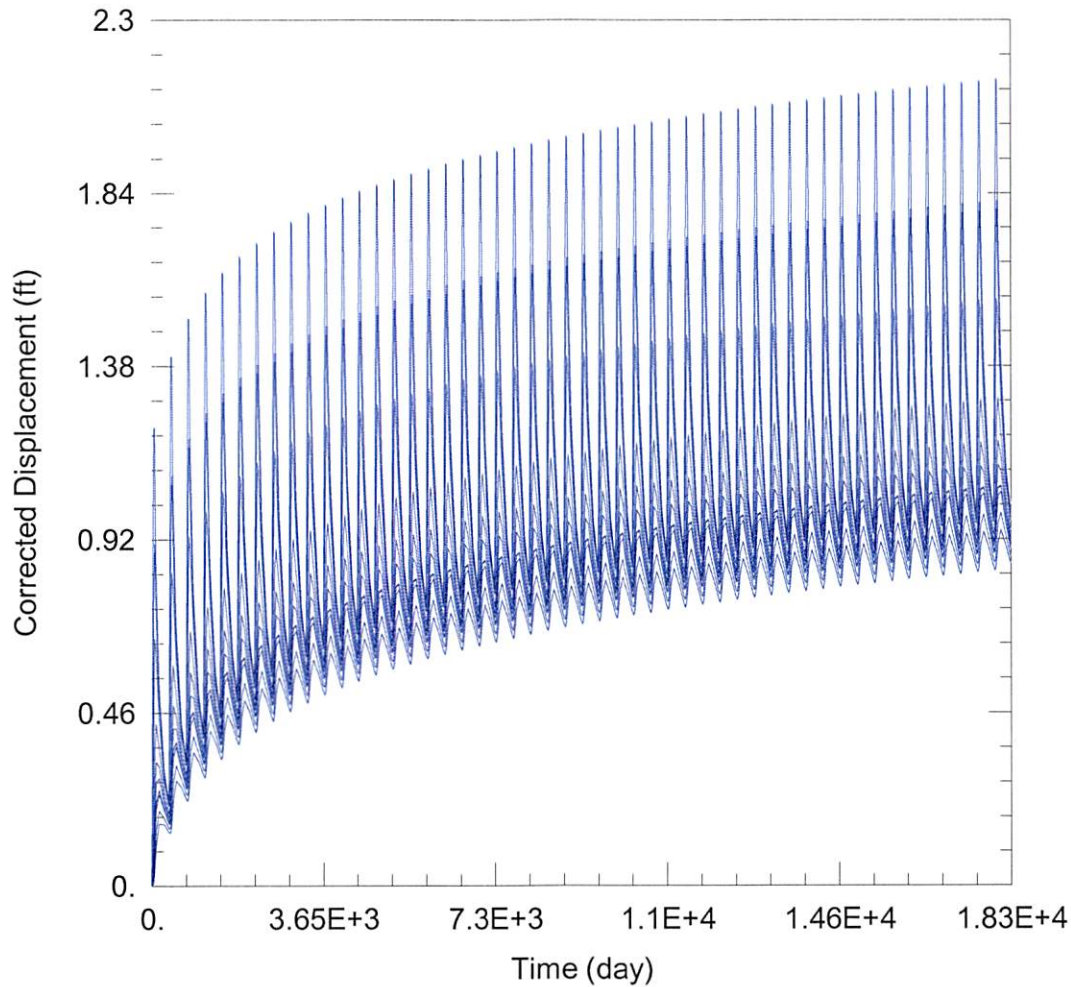
Domestic 3: Net drawdown = **1.3 ft**

Domestic 4: Net drawdown = **0.9 ft**

Net drawdown does not exceed the drawdown allowance of 4.0 ft for any wells within 1 mile of the proposed point of diversion, so critical well analysis is not necessary.

**Conclusion:**

The proposed change should result in minimal effects on neighboring wells and is unlikely to create an impairment situation. GMD3 staff recommends approval of the application.



### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020\_moves\22575\_D1\22575 D1 ID2 Proposed.aqt

Date: 02/28/20

Time: 15:31:47

### PROJECT INFORMATION

Company: GMD 3

Project: 22575 D1 ID2

Location: Finney County

Test Well: 22575 D1 ID2

### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
22575 D1 ID2	-52518	335122

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	-52518	335122
□ 22575 D1 ID8	-56780	337370
□ 22575 D1 ID6	-53373	333686
□ 22575 D1 ID5	-55894	333637
□ 22575 D2 ID1	-50781	336320
□ 29938 ID3	-53408	338987
□ 16157 ID4	-53652	331017
□ 30692 ID3	-50876	331061
□ Domestic 1	-54207	337016
□ Domestic 2	-52325	339394
□ Domestic 3	-49280	335348
□ Domestic 4	-47327	334668