



27765: Drawdown from current location = 5.42 ft  
Drawdown from proposed location = 11.79 ft  
Net drawdown = **6.4 ft**

18777: Drawdown from current location = 5.96 ft  
Drawdown from proposed location = 12.95 ft  
Net drawdown = **7.0 ft**

12045: Drawdown from current location = 4.20 ft  
Drawdown from proposed location = 9.14 ft  
Net drawdown = **4.9 ft**

Domestic 1: Drawdown from current location = 5.80 ft  
Drawdown from proposed location = 12.61 ft  
Net drawdown = **6.8 ft**

Domestic 2: Drawdown from current location = 5.89 ft  
Drawdown from proposed location = 12.80 ft  
Net drawdown = **6.9 ft**

Domestic 3: Drawdown from current location = 5.80 ft  
Drawdown from proposed location = 12.60 ft  
Net drawdown = **6.8 ft**

Domestic 4: Drawdown from current location = 4.52 ft  
Drawdown from proposed location = 9.83 ft  
Net drawdown = **5.3 ft**

Domestic 5: Drawdown from current location = 6.45 ft  
Drawdown from proposed location = 14.04 ft  
Net drawdown = **7.6 ft**

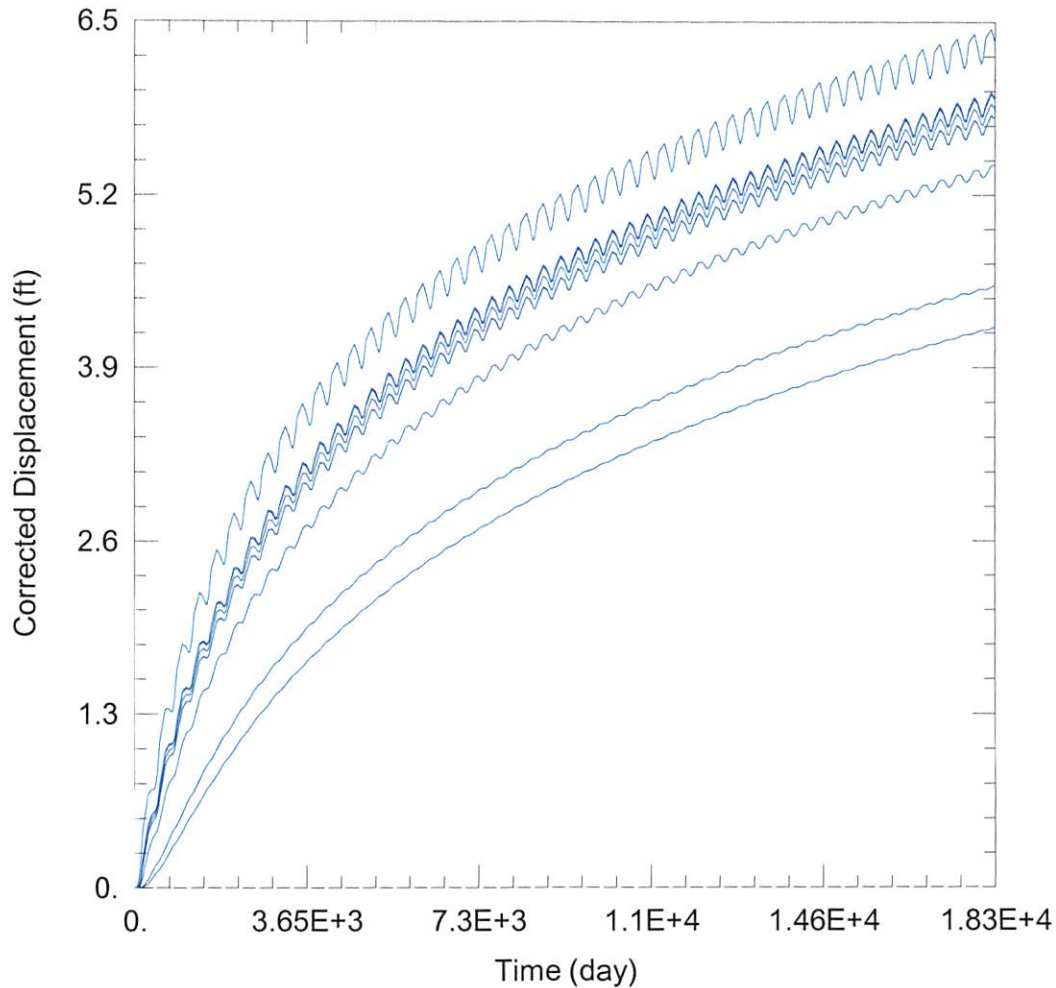
Net drawdown exceeds the drawdown allowance of 1.5 ft for all wells within 1 mile of the proposed location. The GMD3 model predicts the saturated thickness of the area to reduce under current conditions by more than 40% over the next 25 years, so all wells in the area are critical wells.

**Conclusion:**

This proposed change will create a noticeable effect on neighboring critical wells. These wells have a limited remaining water supply, creating high risk of impairment. GMD3 staff recommends mitigating

effects on neighboring wells by limiting the proposed well to a rate of 550 gpm and 311 acre feet. This limitation will reduce net effect on neighboring wells as follows:

27702:	Net drawdown = <b>1.4 ft</b>
14536:	Net drawdown = <b>1.4 ft</b>
27765:	Net drawdown = <b>1.3 ft</b>
18777:	Net drawdown = <b>1.4 ft</b>
12045:	Net drawdown = <b>1.0 ft</b>
Domestic 1:	Net drawdown = <b>1.4 ft</b>
Domestic 2:	Net drawdown = <b>1.4 ft</b>
Domestic 3:	Net drawdown = <b>1.4 ft</b>
Domestic 4:	Net drawdown = <b>1.1 ft</b>
Domestic 5:	Net drawdown = <b>1.5 ft</b>



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020\_moves\28636\28636 Current.aqt

Date: 07/13/20

Time: 11:39:08

PROJECT INFORMATION

Company: GMD 3

Project: 28636

Location: Gray County

Test Well: 28636

WELL DATA

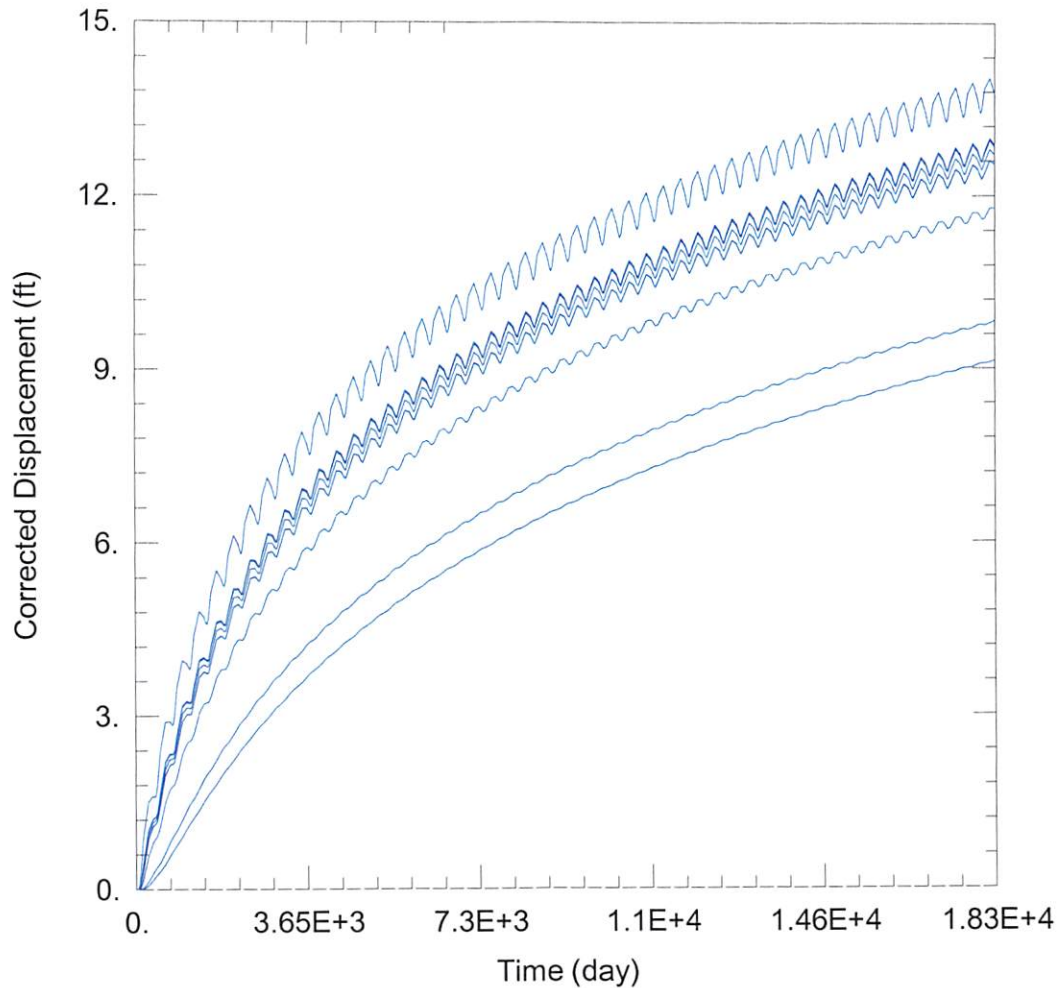
Pumping Wells

Well Name	X (ft)	Y (ft)
28636	112526	288948

Observation Wells

Well Name	X (ft)	Y (ft)
□	112526	288948
□ 27702	116140	287973
□ 14536	109859	286304
□ 27765	112570	284631
□ 18777	115193	286302
□ 12045	117833	286024
□ Domestic 1	109153	290930
□ Domestic 2	108834	287939
□ Domestic 3	116052	290650
□ Domestic 4	116728	285333
□ Domestic 5	115401	287320

SOLUTION



### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020\_moves\28636\28636 Proposed.aqt

Date: 07/13/20

Time: 11:39:00

### PROJECT INFORMATION

Company: GMD 3

Project: 28636

Location: Gray County

Test Well: 28636

### WELL DATA

#### Pumping Wells

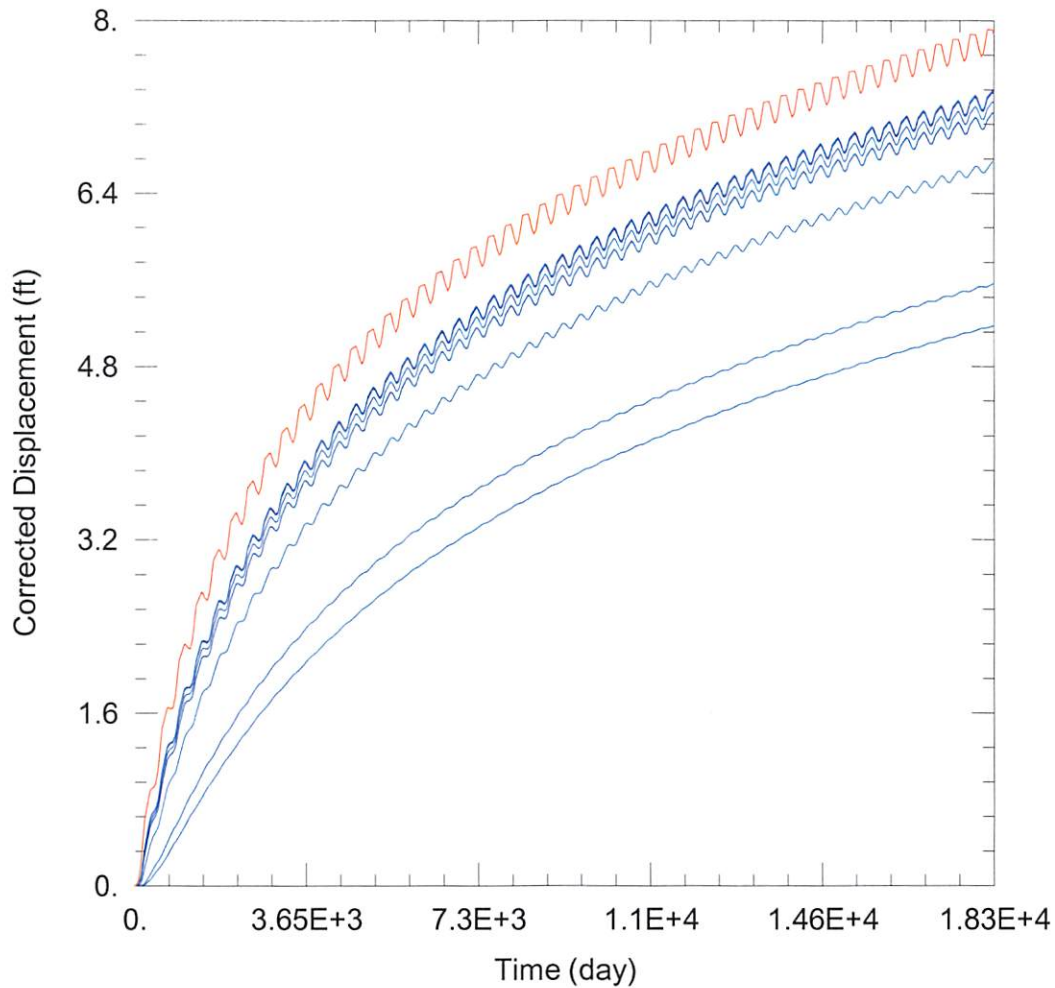
Well Name	X (ft)	Y (ft)
28636	112526	288948

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	112526	288948
□ 27702	116140	287973
□ 14536	109859	286304
□ 27765	112570	284631
□ 18777	115193	286302
□ 12045	117833	286024
□ Domestic 1	109153	290930
□ Domestic 2	108834	287939
□ Domestic 3	116052	290650
□ Domestic 4	116728	285333
□ Domestic 5	115401	287320

SOLUTION





### WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020\_moves\28636\28636 Reduced.aqt

Date: 07/13/20

Time: 16:16:59

### PROJECT INFORMATION

Company: GMD 3

Project: 28636

Location: Gray County

Test Well: 28636

### WELL DATA

#### Pumping Wells

Well Name	X (ft)	Y (ft)
28636	112526	288948

#### Observation Wells

Well Name	X (ft)	Y (ft)
□	112526	288948
□ 27702	116140	287973
□ 14536	109859	286304
□ 27765	112570	284631
□ 18777	115193	286302
□ 12045	117833	286024
□ Domestic 1	109153	290930
□ Domestic 2	108834	287939
□ Domestic 3	116052	290650
□ Domestic 4	116728	285333
□ Domestic 5	115401	287320

SOLUTION