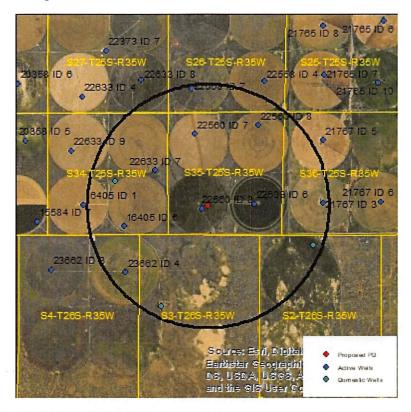
#### Evaluation of proposed move for Water Right No 22560 D2

Proposed: Move water right no. 22560 D2 ID 3 a distance of 305 ft to the northeast.



Wells within 1 mile: 22560 ID 7, 22560 ID 8, 22639 ID 6, 22558 ID 7, 22633 ID 7, 16405 ID 6, 23662 ID 4, 21767 ID 3, a domestic well in section 34-25-35, a domestic well in section 3-26-35, and a domestic well in section 2-26-35.

The saturated thickness at the proposed well location is estimated to be 256 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 = 0.1229, T = 9,278 ft<sup>2</sup>/day,  $tp_{current} = 153$  days (based upon average use and observed rate),  $Q_{current} = 279$  gpm (based upon 2018 field inspection),  $tp_{proposed} = 67$  days,  $Q_{proposed} = 925$  gpm

Theis drawdowns were calculated as follows:

22560 ID 7: Drawdown from current location = 1.31 ft

Drawdown from proposed location = 2.18 ft

Net drawdown = 0.9 ft

22560 ID 8: Drawdown from current location = 1.10 ft

Drawdown from proposed location = 1.75 ft

Net drawdown = 0.7 ft

22639 ID 6:	Drawdown from current location = 1.58 ft

Drawdown from proposed location = 3.04 ft

Net drawdown = 1.5 ft

22558 ID 7: Drawdown from current location = 1.00 ft

Drawdown from proposed location = 1.51 ft

Net drawdown = 0.5 ft

22633 ID 7: Drawdown from current location = 1.47 ft

Drawdown from proposed location = 2.42 ft

Net drawdown = 0.9 ft

16405 ID 6: Drawdown from current location = 1.27 ft

Drawdown from proposed location = 1.87 ft

Net drawdown = **0.6** ft

23662 ID 4: Drawdown from current location = 1.11 ft

Drawdown from proposed location = 1.62 ft

Net drawdown = 0.5 ft

21767 ID 3: Drawdown from current location = 0.99 ft

Drawdown from proposed location = 1.53 ft

Net drawdown = **0.5** ft

Domestic 34-25-35: Drawdown from current location = 1.17 ft

Drawdown from proposed location = 1.74 ft

Net drawdown = **0.6** ft

Domestic 3-26-35: Drawdown from current location = 1.07 ft

Drawdown from proposed location = 1.58 ft

Net drawdown = **0.5 ft** 

Domestic 2-26-35: Drawdown from current location = 1.01 ft

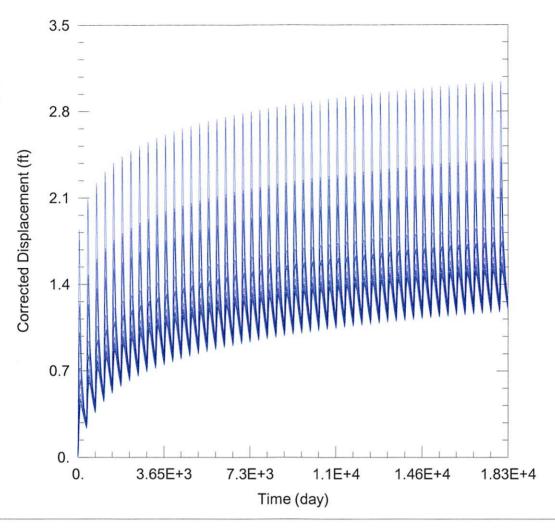
Drawdown from proposed location = 1.56 ft

Net drawdown = 0.5 ft

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

### **Conclusion:**

Based upon information from the GMD3 model, this proposal will cause minimal effects on neighboring wells, and is unlikely to create an impairment. GMD3 staff recommends approval of the application.



# WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020 moves\22560 D2\22560 Proposed.agt

Date: 03/23/20 Time: 14:51:13

# PROJECT INFORMATION

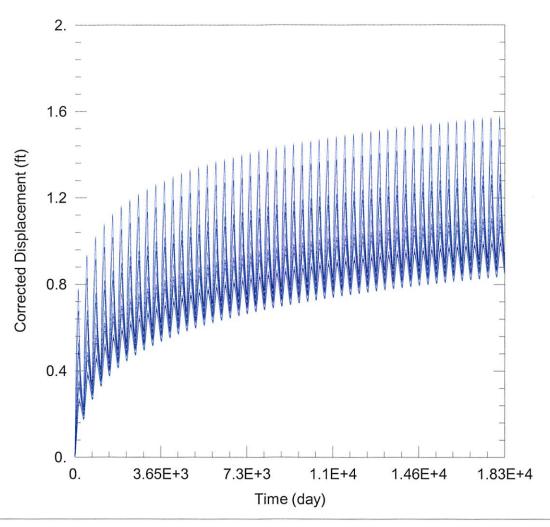
Company: GMD 3 Project: 22560 D2

Location: Kearny County Test Well: 22560 D2

### **WELL DATA**

Pumping Wells				
Well Name	X (ft)	Y (ft)		
22560 ID 3	-96709	348719		

Observation Wells				
Well Name	X (ft)	Y (ft)		
0	-96709	348719		
□ 22560 ID 7	-97290	351818		
□ 22560 ID 8	-94489	352207		
□ 22639 ID 6	-94676	348784		
□ 22558 ID 7	-97427	353780		
□ 22633 ID 7	-99008	350250		
□ 16405 ID 6	-100357	347820		
□ 23662 ID 4	-100295	345828		
□ 21767 ID 3	-91689	348813		
Domestic 34-25-35	-100759	349770		
□ Domestic 3-26-35	-98733	344346		
□ Domestic 2-26-35	-92130	347006		



# WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020 moves\22560 D2\22560 D2 Current.aqt

Date: 03/23/20 Time: 14:51:23

# PROJECT INFORMATION

Company: GMD 3 Project: 22560 D2

Location: Kearny County
Test Well: 22560 D2

### **WELL DATA**

Pumping Wells				
Well Name	X (ft)	Y (ft)		
22560 ID 3	-96978	348576		

Observation Wells				
Well Name	X (ft)	Y (ft)		
0	-96978	348576		
□ 22560 ID 7	-97290	351818		
□ 22560 ID 8	-94489	352207		
□ 22639 ID 6	-94676	348784		
□ 22558 ID 7	-97427	353780		
- 22633 ID 7	-99008	350250		
□ 16405 ID 6	-100357	347820		
□ 23662 ID 4	-100295	345828		
□ 21767 ID 3	-91689	348813		
□ Domestic 34-25-35	-100759	349770		
<ul> <li>Domestic 3-26-35</li> </ul>	-98733	344346		
<ul> <li>Domestic 2-26-35</li> </ul>	-92130	347006		