Evaluation of proposed move for Water Right No 26066 ID3

Proposed: Move water right no. 26066 ID3 a distance of 1385 ft to the southeast.



Wells within 1 mile: 26066 ID1, 26066 ID4, 26066 ID5, 26066 ID7, 26065 ID1, 26065 ID5, 26065 ID6, 26065 ID7, 26068 ID1, 26067 ID4, 26067 ID6, and three domestic wells, numbered on the map above.

The saturated thickness at the proposed well location is estimated to be 305 ft, based upon the driller's log and an observation well in section 14-25-36. 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 = 0.1877, T = 23,951 ft²/day, tp_{current} = 120 days (conservative estimate given no recent observed or reported rate), $Q_{current} = 432$ gpm (based upon 120 day pumping estimate and reported use), tp_{proposed} = 66 days, $Q_{proposed} = 900$ gpm

Theis drawdowns were calculated as follows:

26066 ID1:

Drawdown from current location = 0.70 ft

Drawdown from proposed location = 0.81 ft

Net drawdown = **0.1** ft

26066 ID4:	Drawdown from current location = 0.85 ft
20000 ID4.	Diavación - 0.05 il

Drawdown from proposed location = 1.36 ft

Net drawdown = 0.5 ft

26066 ID5: Drawdown from current location = 0.90 ft

Drawdown from proposed location = 0.90 ft

Net drawdown = 0.0 ft

26066 ID7: Drawdown from current location = 0.57 ft

Drawdown from proposed location = 0.76 ft

Net drawdown = 0.2 ft

26065 ID1: Drawdown from current location = 0.68 ft

Drawdown from proposed location = 1.20 ft

Net drawdown = 0.5 ft

26065 ID5: Drawdown from current location = 0.55 ft

Drawdown from proposed location = 0.77 ft

Net drawdown = 0.2 ft

26065 ID6: Drawdown from current location = 0.52 ft

Drawdown from proposed location = 0.75 ft

Net drawdown = 0.2 ft

26065 ID7: Drawdown from current location = 0.72 ft

Drawdown from proposed location = 1.18 ft

Net drawdown = 0.5 ft

26068 ID1: Drawdown from current location = 0.69 ft

Drawdown from proposed location = 0.86 ft

Net drawdown = 0.2 ft

26067 ID4: Drawdown from current location = 0.84 ft

Drawdown from proposed location = 0.92 ft

Net drawdown = 0.1 ft

26067 ID6:

Drawdown from current location = 0.71 ft

Drawdown from proposed location = 0.69 ft

Net drawdown = 0.0 ft

Domestic 1:

Drawdown from current location = 0.68 ft

Drawdown from proposed location = 0.86 ft

Net drawdown = 0.2 ft

Domestic 2:

Drawdown from current location = 1.94 ft

Drawdown from proposed location = 1.70 ft

Net drawdown = -0.2 ft

Domestic 3:

Drawdown from current location = 0.66 ft

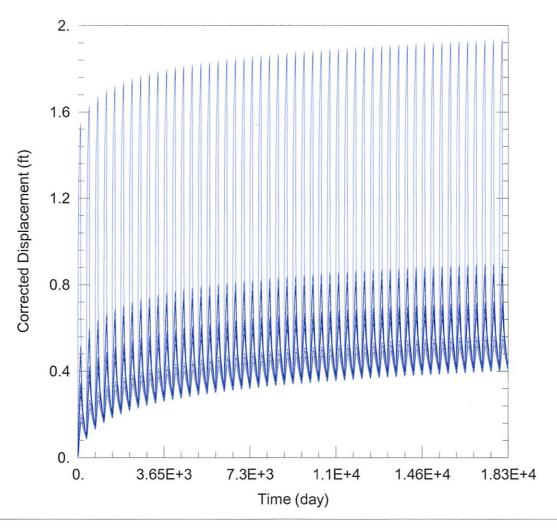
Drawdown from proposed location = 0.73 ft

Net drawdown = **0.1** ft

Net drawdown does not exceed the drawdown allowance of 4.0 ft for any wells within 1 mile of the proposed location. Therefore, no critical well analysis is necessary.

Conclusion:

Net effects on neighboring wells created by the proposed move are minimal and unlikely to be noticeable. This proposal is unlikely to create or exacerbate and impairment situation. GMD3 staff recommends approval of the application.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020_moves\26066\26066 Current.aqt

Date: 02/11/20 Time: 16:31:32

PROJECT INFORMATION

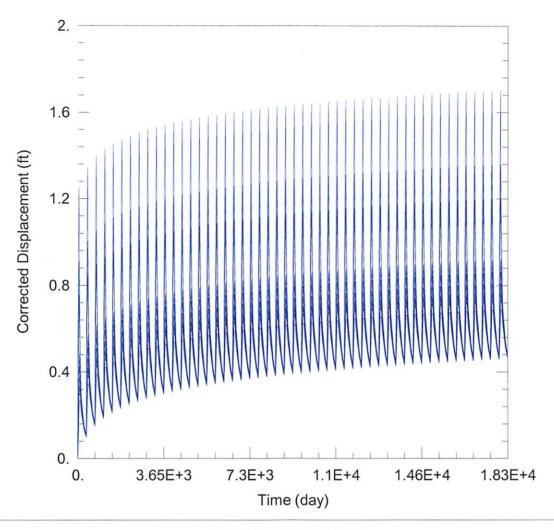
Company: GMD 3 Project: 26066

Location: Kearny County
Test Well: 26066

WELL DATA

Pumping Wells			
X (ft)	Y (ft)		
-123245	364677		
	X (ft)		

Observation Wells				
Well Name	X (ft)	Y (ft)		
	-123245	364677		
□ 26066 ID1	-120578	367225		
□ 26066 ID4	-120615	364658		
□ 26066 ID5	-123142	367076		
□ 26066 ID7	-118122	364519		
□ 26065 ID1	-120601	361905		
□ 26065 ID5	-123295	359313		
□ 26065 ID6	-120835	359404		
□ 26065 ID7	-123370	361229		
□ 26068 ID1	-125844	361925		
□ 26067 ID4	-125873	363950		
□ 26067 ID6	-125991	366944		
Domestic 1	-119751	366271		



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020_moves\26066\26066 Proposed.aqt

Date: 02/11/20 Time: 16:31:25

PROJECT INFORMATION

Company: GMD 3 Project: 26066

Location: Kearny County

Test Well: 26066

WELL DATA

Pumping Wells			
Well Name	X (ft)	Y (ft)	
26066 ID3	-122413	363570	

Observation Wells				
Well Name	X (ft)	Y (ft)		
	-122413	363570		
□ 26066 ID1	-120578	367225		
□ 26066 ID4	-120615	364658		
□ 26066 ID5	-123142	367076		
□ 26066 ID7	-118122	364519		
□ 26065 ID1	-120601	361905		
□ 26065 ID5	-123295	359313		
□ 26065 ID6	-120835	359404		
□ 26065 ID7	-123370	361229		
□ 26068 ID1	-125844	361925		
□ 26067 ID4	-125873	363950		
□ 26067 ID6	-125991	366944		
Domestic 1	-119751	366271		