Evaluation of proposed move for Water Right No 25312

Proposed: Move water right no. 25312 a distance of 1346 ft to the northwest.



Wells within 1 mile: 25310 ID1, 25310 ID2, 25310 ID3, 25310 ID4, 25309 ID4, 25314 ID4, 25314 ID1, 21597 ID1, 28833 ID5, a domestic well in section 28-26-36, and a domestic well in section 21-26-36.

The saturated thickness at the proposed well location is estimated to be 253 ft, based upon an observation well in section 21-26-36 and the driller's log at the proposed well location. For saturated thicknesses greater than 200 ft, the maximum allowable drawdown is 4.0 ft.

50 year Theis Analysis: The following values were used to run the analysis:

S = 0.1823, T = 4159 ft²/day, tp_{current} = 143 days, Q_{current} = 345 gpm, tp_{proposed} = 66 days, Q_{proposed} = 930 gpm

Theis drawdowns were calculated as follows:

25310 ID1:

Drawdown from current location = 1.78 ft

Drawdown from proposed location = 2.58 ft

Net drawdown = 0.8 ft

25310 ID2:

Drawdown from current location = 1.68 ft

Drawdown from proposed location = 2.47 ft

Net drawdown = 0.8 ft

25310 ID3: Drawdown from current location = 2.18 ft

Drawdown from proposed location = 3.63 ft

Net drawdown = 1.5 ft

25310 ID4: Drawdown from current location = 2.65 ft

Drawdown from proposed location = 4.88 ft

Net drawdown = 2.2 ft

25309 ID4: Drawdown from current location = 1.67 ft

Drawdown from proposed location = 2.35 ft

Net drawdown = 0.7 ft

25314 ID4: Drawdown from current location = 2.69 ft

Drawdown from proposed location = 2.87 ft

Net drawdown = 0.2 ft

25314 ID1: Drawdown from current location = 2.19 ft

Drawdown from proposed location = 2.81 ft

Net drawdown = **0.6** ft

21597 ID1: Drawdown from current location = 2.16 ft

Drawdown from proposed location = 2.26 ft

Net drawdown = **0.1** ft

28833 ID5: Drawdown from current location = 1.92 ft

Drawdown from proposed location = 2.66 ft

Net drawdown = **0.7** ft

Domestic 28-26-36: Drawdown from current location = 4.75 ft

Drawdown from proposed location = 3.81

Net drawdown = -0.9 ft

Domestic 21-26-36: Drawdown from current location = 2.16 ft

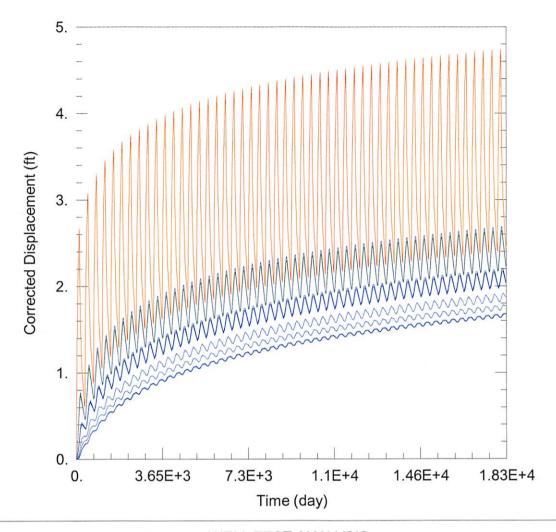
Drawdown from proposed location = 3.16 ft

Net drawdown = 1.0 ft

Net drawdown does not exceed the drawdown allowance on any neighboring wells, so critical well analysis is not necessary.

Conclusion:

This proposal will likely have a negligible effect on neighboring water rights. GMD3 staff recommends approval of the application.



WELL TEST ANALYSIS

Date: 09/12/19

PROJECT INFORMATION

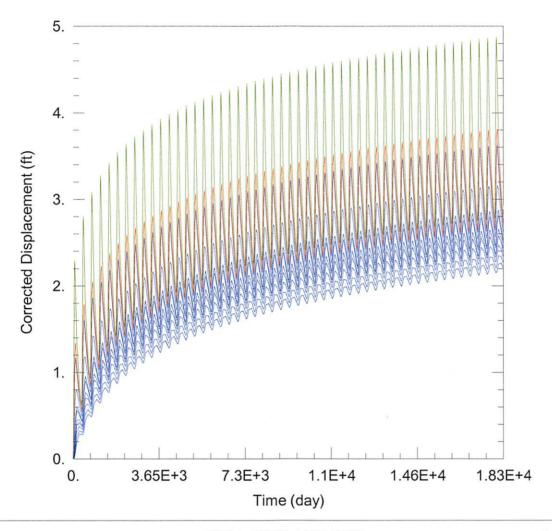
Company: GMD 3 Project: 25312

Location: Kearny County Test Well: 25312

WELL DATA

Pumping Wells			
Well Name	X (ft)	Y (ft)	
25312	-132627	323152	

Observation Wells				
Well Name	X (ft)	Y (ft)		
	-132627	323152		
□ 25310 ID1	-132578	328457		
□ 25310 ID2	-135197	328368		
□ 25310 ID3	-135215	325910		
□ 25310 ID4	-132570	325894		
□ 25309 ID4	-137861	325796		
□ 25314 ID4	-129962	323146		
□ 25314 ID1	-129870	325657		
□ 21597 ID1	-129885	320488		
□ 28833 ID5	-130880	327535		
 Domestic 28-26-36 	-132274	322235		
□ Domestic 21-26-36	-131582	326830		



WELL TEST ANALYSIS

Date: 09/12/19

PROJECT INFORMATION

Company: GMD 3 Project: 25312

Location: Kearny County
Test Well: 25312

WELL DATA

Pumping Wells			
Well Name	X (ft)	Y (ft)	
25312	-133269	324335	

Observation Wells				
Well Name	X (ft)	Y (ft)		
	-133269	324335		
□ 25310 ID1	-132578	328457		
□ 25310 ID2	-135197	328368		
□ 25310 ID3	-135215	325910		
□ 25310 ID4	-132570	325894		
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