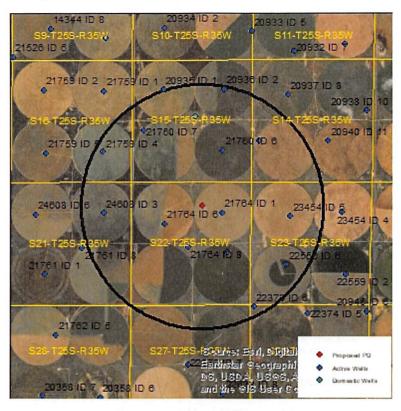
Evaluation of proposed move for Water Right No 21764 D1

Proposed: Move water right no. 21764 D1 a distance of 942 ft to the northwest.



Wells within 1 mile: 21764 D1 ID 6, 21764 D2 ID 7, 21764 D2 ID 8, 24608, 21759, 21760 ID 6, 21760 ID 7, 20939, 23454, 22559, 22373, and a domestic well in section 15-25-35.

The saturated thickness at the proposed well location is estimated to be 354 ft, based upon an observation well in section 26-25-35 and the driller's log at the proposed well location. 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 = 0.2549, T = 38,487 ft²/day, tp_{current} = 244 days (based upon average use and observed rate), $Q_{current} = 100$ gpm (based upon 2018 field inspection), tp_{proposed} = 73 days, $Q_{proposed} = 845$ gpm

Theis drawdowns were calculated as follows:

21764 D1 ID 6:

Drawdown from current location = 0.21 ft

Drawdown from proposed location = 1.00 ft

Net drawdown = 0.8 ft

21764 D2 ID 7:

Drawdown from current location = 0.24 ft

Drawdown from proposed location = 0.86 ft

Net drawdown = 0.6 ft

21764 D2 ID 8: Drawdown from current location = 0.23ft

Drawdown from proposed location = 0.98 ft

Net drawdown = **0.8** ft

24608: Drawdown from current location = 0.16 ft

Drawdown from proposed location = 0.53 ft

Net drawdown = 0.4 ft

21759: Drawdown from current location = 0.15 ft

Drawdown from proposed location = 0.48 ft

Net drawdown = 0.3 ft

21760 ID 6: Drawdown from current location = 0.21 ft

Drawdown from proposed location = 0.78 ft

Net drawdown = **0.6** ft

21760 ID 7: Drawdown from current location = 0.16 ft

Drawdown from proposed location = 0.55 ft

Net drawdown = 0.4 ft

20939: Drawdown from current location = 0.19 ft

Drawdown from proposed location = 0.59 ft

Net drawdown = 0.4 ft

23454: Drawdown from current location = 0.20 ft

Drawdown from proposed location = 0.57 ft

Net drawdown = 0.4 ft

22373: Drawdown from current location = 0.17 ft

Drawdown from proposed location = 0.48 ft

Net drawdown = **0.3** ft

Domestic 15-25-35: Drawdown from current location = 0.17 ft

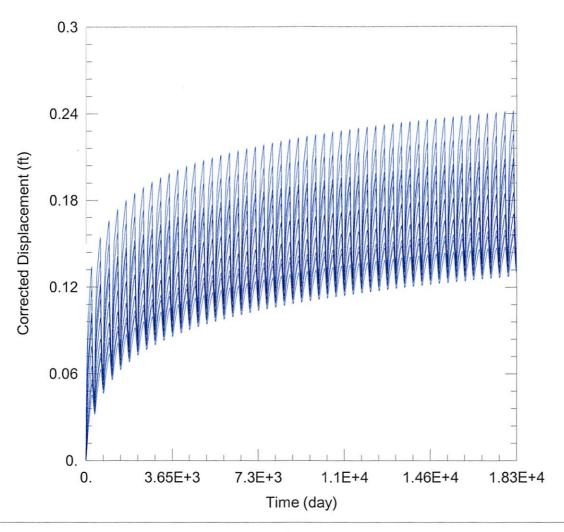
Drawdown from proposed location = 0.58 ft

Net drawdown = 0.4 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\21764 D1\21764 D1 Current.aqt

Date: 06/10/20 Time: 16:23:01

PROJECT INFORMATION

Company: GMD 3 Project: 21764 D1

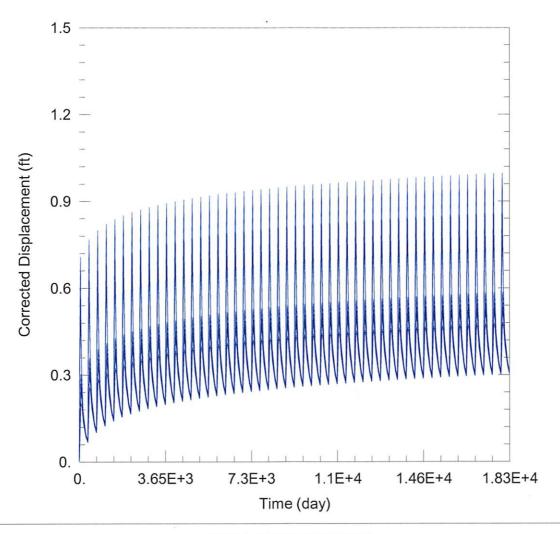
Location: Kearny County Test Well: 21764 D1

WELL DATA

Pumping Wells

. amping wone			
Well Name	X (ft)	Y (ft)	
21764 D1 ID 1	-99656	361984	

Observa	ation Wells	
Well Name	X (ft)	Y (ft)
	-99656	361984
□ 21764 D1 ID 6	-102194	361512
□ 21764 D2 ID 7	-99467	360289
□ 21764 D2 ID 8	-101156	360521
24608	-104852	361963
21759	-104862	364644
□ 21760 ID 6	-99648	364682
□ 21760 ID 7	-103108	365530
20939	-98070	365124
23454	-96696	361834
22559	-96877	359756
22373	-98284	357933
 Domestic 15-25-35 	-100843	366137



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020_moves\21764 D1\21764 D1 Proposed.aqt

Date: 06/10/20 Time: 16:22:20

PROJECT INFORMATION

Company: GMD 3 Project: 21764 D1

Location: Kearny County
Test Well: 21764 D1

WELL DATA

 Pumping Wells

 Well Name
 X (ft)
 Y (ft)

 21764 D1 ID 1
 -100555
 362268

	ation Wells	
Well Name	X (ft)	Y (ft)
0	-100555	362268
□ 21764 D1 ID 6	-102194	361512
□ 21764 D2 ID 7	-99467	360289
□ 21764 D2 ID 8	-101156	360521
24608	-104852	361963
21759	-104862	364644
□ 21760 ID 6	-99648	364682
□ 21760 ID 7	-103108	365530
20939	-98070	365124
23454	-96696	361834
22559	-96877	359756
- 22373	-98284	357933
 Domestic 15-25-35 	-100843	366137