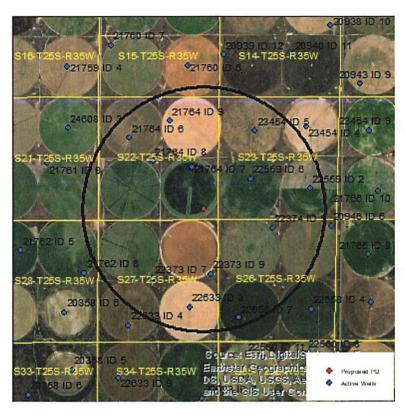
Evaluation of proposed move for Water Right Nos. 21764 DA and 21764 DB

Proposed: Move water right no. 21764 DA to a new well location, a distance of 1,903 ft to the southeast. Move water right no. 21764 DB to the well location currently authorized under water right no. 21764 DA.



Wells within 1 mile: 21764 ID6, 21764 ID9, 23454, 22559 ID2, 22559 ID6, 22373 ID7, 22373 ID9, 22633, 22558, and 22374.

The saturated thickness at the proposed well location is estimated to be 338 ft, based upon the driller's log and an observation well in section 26-25-35. For saturated thickness greater than 200 ft, the drawdown allowance is 4.0 ft.

50 year Theis Analysis: The well currently authorized under water right no. 21764 DA will not be gaining any new authority, so the evaluation used the well currently authorized under water right no. 21764 DB for current conditions and the well to be drilled under water right no. 21764 DA for proposed conditions. The following values were used to run the analysis:

S = 0.2549, T = 38,487 ft²/day, $tp_{current} = 166$ days (based on average use and observed rate), $Q_{current} = 253$ gpm (based on 2018 field inspection), $tp_{proposed} = 66.5$ days, $Q_{proposed} = 925$ gpm

Theis drawdowns were calculated as follows:

21764 ID6: Drawdown from current location = 0.53 ft

Drawdown from proposed location = 0.52 ft

Net drawdown = 0.0 ft

21764 ID9:	Drawdown from current location = 0.47 ft
Z1/04 ID3.	Diawadwii iidiii caileiit ideatidii = 0.47 it

Drawdown from proposed location = 0.56 ft

Net drawdown = 0.1 ft

23454: Drawdown from current location = 0.31 ft

Drawdown from proposed location = 0.56 ft

Net drawdown = 0.3 ft

22559 ID2: Drawdown from current location = 0.24 ft

Drawdown from proposed location = 0.50 ft

Net drawdown = 0.3 ft

22559 ID6: Drawdown from current location = 0.32 ft

Drawdown from proposed location = 0.84 ft

Net drawdown = 0.5 ft

22373 ID7: Drawdown from current location = 0.29 ft

Drawdown from proposed location = 0.60 ft

Net drawdown = 0.3 ft

22373 ID9: Drawdown from current location = 0.28 ft

Drawdown from proposed location = 0.74 ft

Net drawdown = **0.5** ft

22633: Drawdown from current location = 0.25 ft

Drawdown from proposed location = 0.54 ft

Net drawdown = **0.3** ft

22558: Drawdown from current location = 0.23 ft

Drawdown from proposed location = 0.48 ft

Net drawdown = **0.3** ft

22374: Drawdown from current location = 0.27 ft

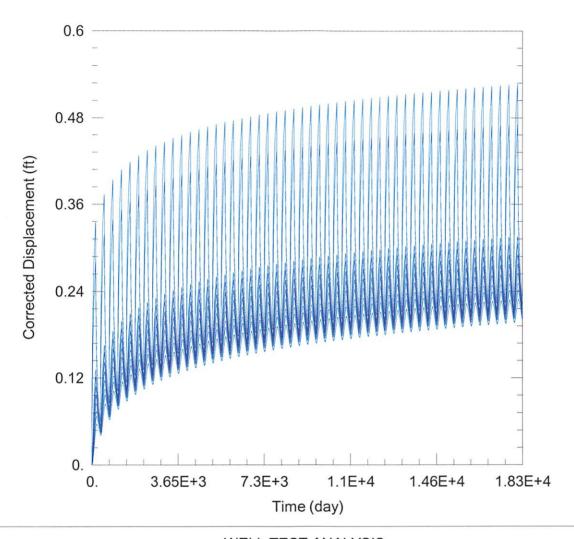
Drawdown from proposed location = 0.68 ft

Net drawdown = 0.4 ft

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

Conclusion:

The proposed move is likely to create minimal effects on neighboring wells and appears unlikely to cause impairment. Any concerned neighbors should contact GMD3 at (620) 275-7147 or the Division of Water Resources at (620) 276-2901.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022 moves\21764\21764 Current.aqt

Date: 04/20/22

Time: 15:39:48

PROJECT INFORMATION

Company: GMD 3

Project: 21764 DA & 21764 DB Location: Kearny County

WELL DATA

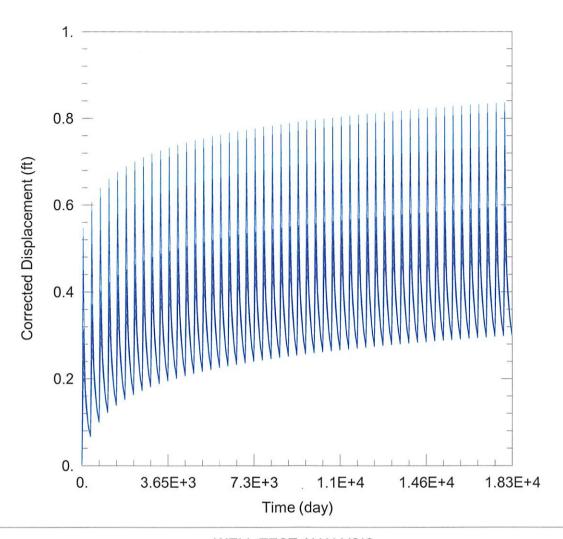
Pumping Wells			
Well Name	X (ft)	Y (ft)	
21764 ID8	-101288	360529	

Well Name	X (ft)	Y (ft)
0	-101288	360529
□ 21764 ID6	-102301	361534
□ 21764 ID9	-100552	362271
23454	-96838	361842
□ 22559 ID2	-94422	359361
□ 22559 ID6	-97019	359763
□ 22373 ID7	-101279	355453
□ 22373 ID9	-98755	355649
- 22633	-99692	354212
22558	-97560	353789
22374	-96073	357648

Observation Wells

SOLUTION

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WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022 moves\21764\21764 Proposed.agt

Date: 04/20/22 Time: 15:39:42

PROJECT INFORMATION

Company: GMD 3

Project: 21764 DA & 21764 DB Location: Kearny County

WELL DATA

Pumping Wells			
Well Name	X (ft)	Y (ft)	
21764 ID8	-99064	358467	

Well Name	X (ft)	Y (ft)
	-99064	358467
□ 21764 ID6	-102301	361534
□ 21764 ID9	-100552	362271
· 23454	-96838	361842
□ 22559 ID2	-94422	359361
□ 22559 ID6	-97019	359763
□ 22373 ID7	-101279	355453
□ 22373 ID9	-98755	355649
· 22633	-99692	354212
<u>22558</u>	-97560	353789
22374	-96073	357648

Observation Wells

SOLUTION

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