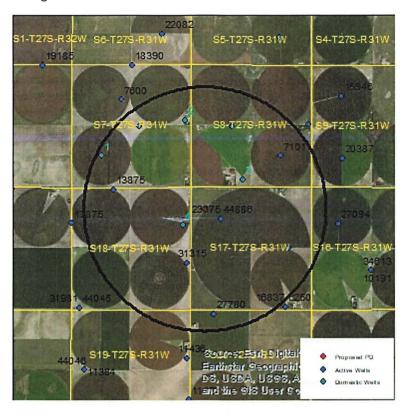
Evaluation of proposed move for Water Right Nos. 23675 & 44886

Proposed: Move water right nos. 23675 & 44886 a distance of 840 ft to the northwest.



Wells within 1 mile14354 & 16308, 7101, 13875, 31315, 1901 & 42078, 27780, and four domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 319 ft, based upon the driller's log and an observation well in section 9-27-31. 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 = 0.1175, T = 18,063 ft²/day, $tp_{current} = 111$ days (based on observed rate and reported quantity), $Q_{current} = 529$ gpm (based on 2020 field inspection), $tp_{proposed} = 67$ days, $Q_{proposed} = 1200$ gpm

Theis drawdowns were calculated as follows:

14354 & 16308:

Drawdown from current location = 1.07 ft

Drawdown from proposed location = 1.67 ft

Net drawdown = 0.6 ft

7101:

Drawdown from current location = 1.11 ft

Drawdown from proposed location = 1.59 ft

Net drawdown = 0.5 ft

13875: Drawdown from current location = 0.95 ft

Drawdown from proposed location = 1.58 ft

Net drawdown = 0.6 ft

31315: Drawdown from current location = 1.46 ft

Drawdown from proposed location = 2.31 ft

Net drawdown = 0.8 ft

1901 & 42078: Drawdown from current location = 1.23 ft

Drawdown from proposed location = 1.58 ft

Net drawdown = 0.4 ft

27780: Drawdown from current location = 1.05 ft

Drawdown from proposed location = 1.44 ft

Net drawdown = **0.4** ft

Domestic 1: Drawdown from current location = 0.83 ft

Drawdown from proposed location = 1.31 ft

Net drawdown = **0.5** ft

Domestic 2: Drawdown from current location = 0.99 ft

Drawdown from proposed location = 1.62 ft

Net drawdown = **0.6 ft**

Domestic 3: Drawdown from current location = 0.64 ft

Drawdown from proposed location = 2.60 ft

Net drawdown = 1.0 ft

Domestic 4: Drawdown from current location = 1.75 ft

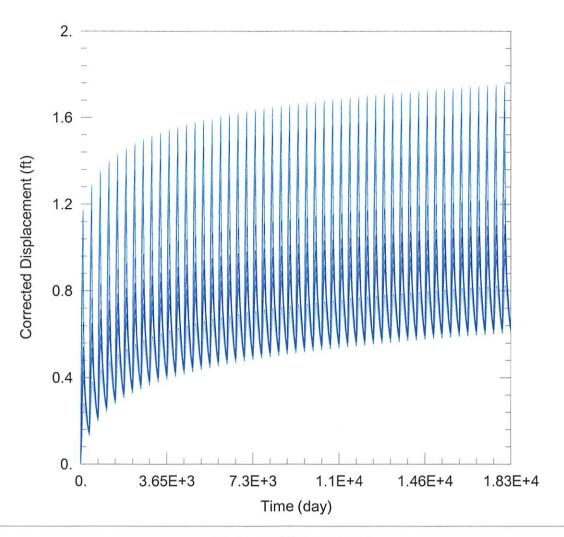
Drawdown from proposed location = 3.66 ft

Net drawdown = 1.9 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 is unlikely to cause impairment. GMD3 staff recommends approval of this proposal.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\23675_44886\23675 & 44886 Current.aqt

Date: 03/16/22 Time: 15:14:15

PROJECT INFORMATION

Company: GMD 3
Project: 23675 & 44886
Location: Haskell County

WELL DATA

Pumping Wells				
Well Name	X (ft)	Y (ft)		
23675 & 44886	17516	301728		

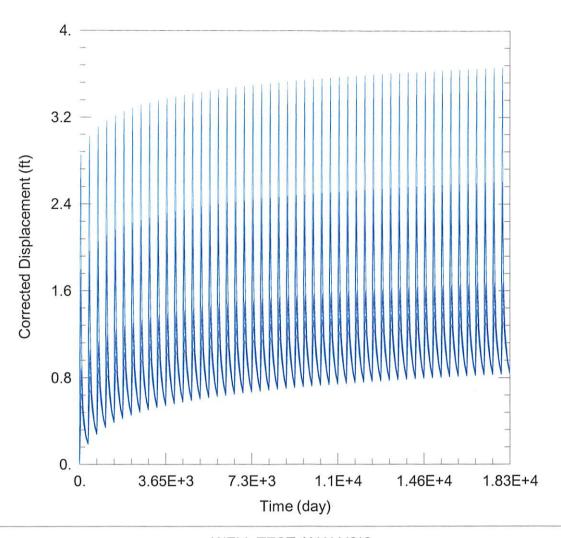
Well Name	X (ft)	Y (ft)	
	17516	301728	
14354 & 16308	17959	305727	
7101	20118	304446	
13875	12829	302982	
31315	16042	299823	
1901 & 42078	20468	300474	
27780	17201	297624	
Domestic 1	12289	304453	
Domestic 2	15941	305977	
Domestic 3	18473	303431	
Domestic 4	15833	301449	

Observation Wells

SOLUTION

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WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\23675_44886\23675 & 44886 Proposed.aqt

Date: 03/16/22 Time: 15:14:06

Pumping Wells

PROJECT INFORMATION

Company: GMD 3
Project: 23675 & 44886
Location: Haskell County

WELL DATA

Observation Wells

15941

18473

15833

305977

303431

301449

i diliping trono					
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
23675 & 44886 16801	16801	302167		16801	302167
			14354 & 16308	17959	305727
		7101	20118	304446	
			- 13875	12829	302982
			31315	16042	299823
			1901 & 42078	20468	300474
			· 27780	17201	297624
			Domestic 1	12289	304453

SOLUTION

Domestic 2

Domestic 3

Domestic 4

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