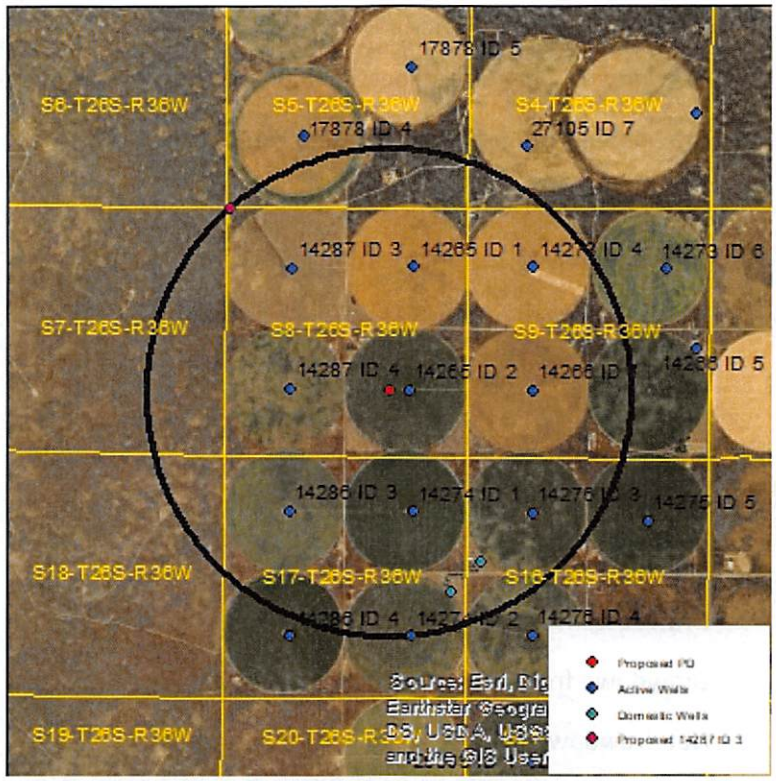
Evaluation of proposed move for Water Right No 14265

Proposed: Move water right no. 14265 ID 2 a distance of 348 ft to the west.



Wells within 1 mile: 14265 ID 1, 14287 ID 3, 14287 ID 4, 14266, 14273, 14276, 14274, 14286, a domestic well in section 17-26-36, and a domestic well in section 16-26-36.

The saturated thickness at the proposed well location is estimated to be 138 ft. For saturated thickness between 125 ft and 150 ft, the drawdown allowance is 3.0 ft.

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

S = 0.1285, T = 12089 ft^2/day, $tp_{current}$ = 272 days (based upon average use and observed rate), $Q_{current}$ = 130 gpm (based upon 2019 field inspection), $tp_{proposed}$ = 57 days, $Q_{proposed}$ = 1,035 gpm

Theis drawdowns were calculated as follows:

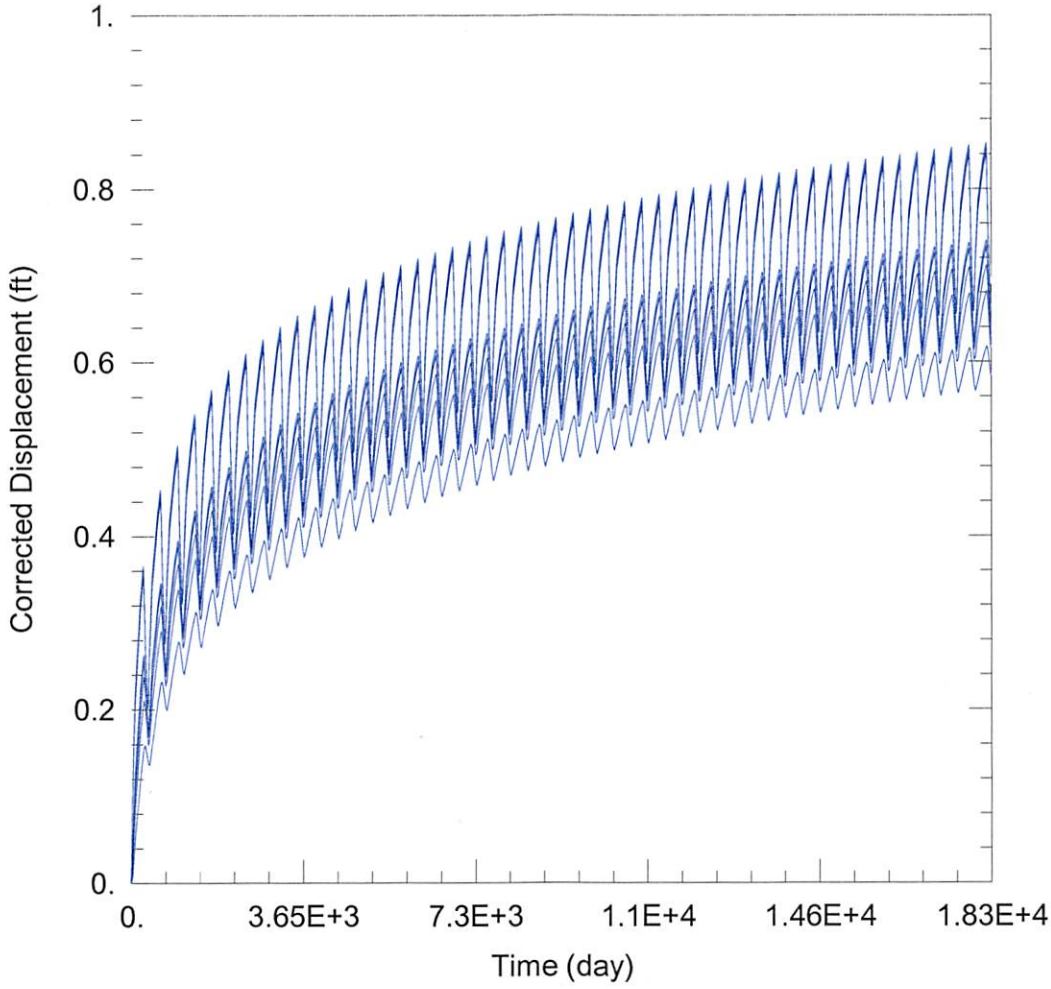
14265 ID 1:	Drawdown from current location = 0.84 ft
	Drawdown from proposed location = 1.97 ft
	Net drawdown = **1.1 ft**
14287 ID 3:	Drawdown from current location = 0.62 ft
	Drawdown from proposed location = 1.18 ft
	Net drawdown = **0.6 ft**

14287 ID 4:	Drawdown from current location = 0.85 ft
	Drawdown from proposed location = 2.42 ft
	Net drawdown = **1.6 ft**
14266:	Drawdown from current location = 0.84 ft
	Drawdown from proposed location = 1.78 ft
	Net drawdown = **0.9 ft**
14273:	Drawdown from current location = 0.73 ft
	Drawdown from proposed location = 1.38 ft
	Net drawdown = **0.6 ft**
14276:	Drawdown from current location = 0.73 ft
	Drawdown from proposed location = 1.41 ft
	Net drawdown = **0.7 ft**
14274:	Drawdown from current location = 0.85 ft
	Drawdown from proposed location = 2.02 ft
	Net drawdown = **1.2 ft**
14286:	Drawdown from current location = 0.74 ft
	Drawdown from proposed location = 1.69 ft
	Net drawdown = **0.9 ft**
Domestic 17-26-36:	Drawdown from current location = 0.68 ft
	Drawdown from proposed location = 1.30 ft
	Net drawdown = **0.6 ft**
Domestic 16-26-36:	Drawdown from current location = 0.71 ft
	Drawdown from proposed location = 1.37 ft
	Net drawdown = **0.7 ft**

Net drawdown does not exceed the drawdown allowance of 3.0 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\14265\14265 Current.aqt
Date: 06/24/20 Time: 15:25:40

PROJECT INFORMATION

Company: GMD 3
Project: 14265 ID 2
Location: Kearny County
Test Well: 14265 ID 2

WELL DATA

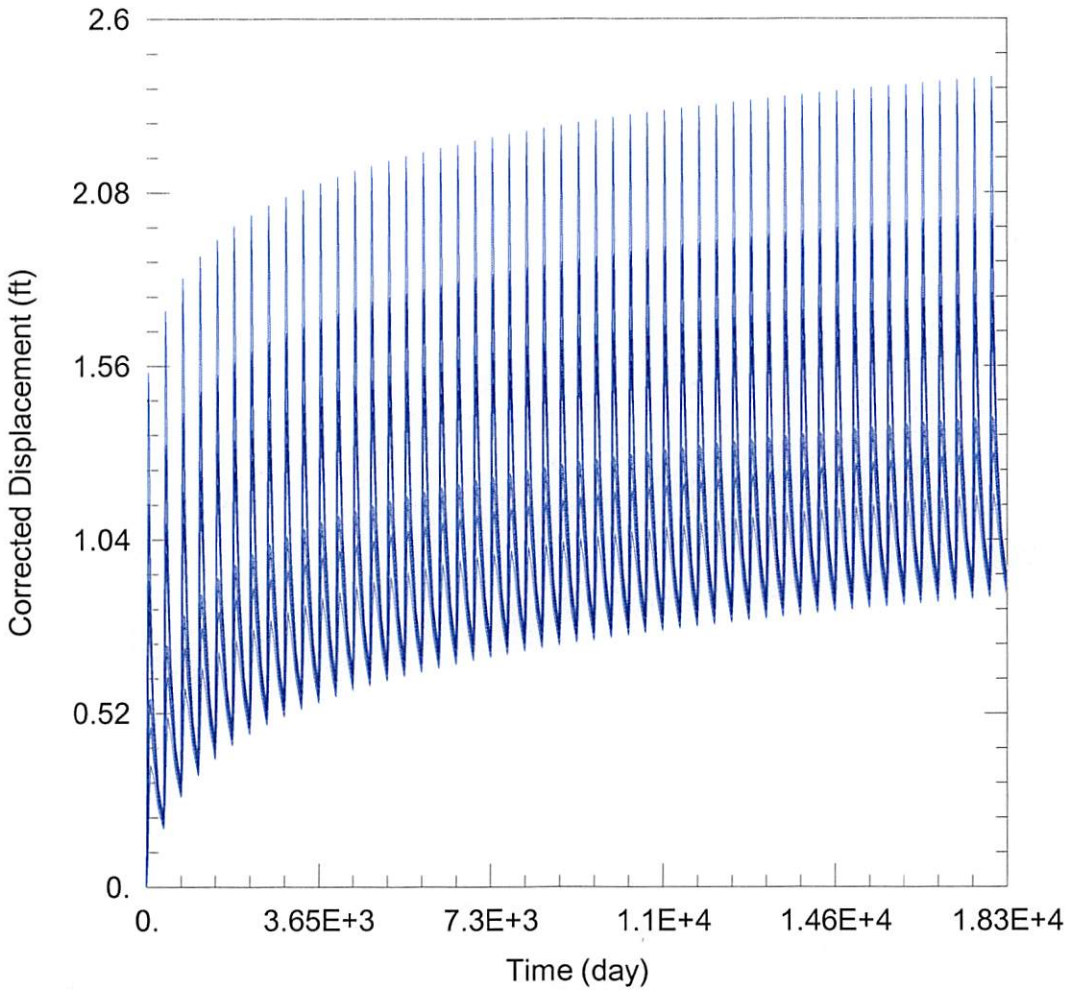
Pumping Wells

Well Name	X (ft)	Y (ft)
14265 ID2	-137752	336408

Observation Wells

Well Name	X (ft)	Y (ft)
▫	-137752	336408
▫ 14265 ID1	-137646	339062
▫ 14287 ID3	-141655	340325
▫ 14287 ID4	-140338	336436
▫ 14266	-135065	336394
▫ 14273	-135040	339060
▫ 14276	-135078	333758
▫ 14274	-137664	333771
▫ 14286	-140349	333796
▫ Domestic 17-26-36	-136835	332032
▫ Domestic 16-26-36	-136170	332681

SOLUTION



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020_moves\14265\14265 Proposed.aqt
Date: 06/24/20 Time: 15:25:34

PROJECT INFORMATION

Company: GMD 3
Project: 14265 ID 2
Location: Kearny County
Test Well: 14265 ID 2

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
14265 ID2	-138206	336368

Observation Wells

Well Name	X (ft)	Y (ft)
▫	-138206	336368
▫ 14265 ID1	-137646	339062
▫ 14287 ID3	-141655	340325
▫ 14287 ID4	-140338	336436
▫ 14266	-135065	336394
▫ 14273	-135040	339060
▫ 14276	-135078	333758
▫ 14274	-137664	333771
▫ 14286	-140349	333796
▫ Domestic 17-26-36	-136835	332032
▫ Domestic 16-26-36	-136170	332681

SOLUTION