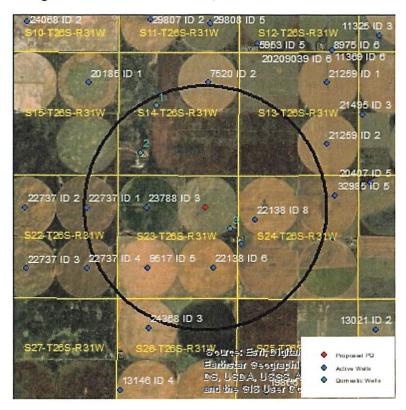
Evaluation of proposed move for Water Right No. 13279

Proposed: Move water right no. 13279 a distance of 2,233 ft to the northwest.



Wells within 1 mile: 22138 ID 6, 22138 ID 8, 9517, 23788, 22737, and three domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 157 ft, based upon an observation well in section 15-26-31 and the driller's log. For saturated thickness between 150 ft and 200 ft, the drawdown allowance is 3.5 ft.

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

S = 0.1141, T = 4395.5 ft²/day, $tp_{current} = 54$ days (based upon average use and observed rate), $Q_{current} = 426$ gpm (based upon 2015 field inspection), $tp_{proposed} = 79$ days, $Q_{proposed} = 830$ gpm

Theis drawdowns were calculated as follows:

22138 ID 6: Drawdown from current location = 2.28 ft

Drawdown from proposed location = 4.21 ft

Net drawdown = 1.9 ft

22138 ID 8: Drawdown from current location = 2.88 ft

Drawdown from proposed location = 4.81 ft

Net drawdown = 1.9 ft

9517: Drawdown from current location = 1.07 ft

Drawdown from proposed location = 3.39 ft

Net drawdown = 2.3 ft

23788: Drawdown from current location = 1.04 ft

Drawdown from proposed location = 4.31 ft

Net drawdown = 3.3 ft

23737: Drawdown from current location = 0.79 ft

Drawdown from proposed location = 2.69 ft

Net drawdown = 1.9 ft

Domestic 1: Drawdown from current location = 0.78 ft

Drawdown from proposed location = 2.78 ft

Net drawdown = 2.0 ft

Domestic 2: Drawdown from current location = 0.86 ft

Drawdown from proposed location = 3.34 ft

Net drawdown = 2.5 ft

Domestic 3: Drawdown from current location = 4.00 ft

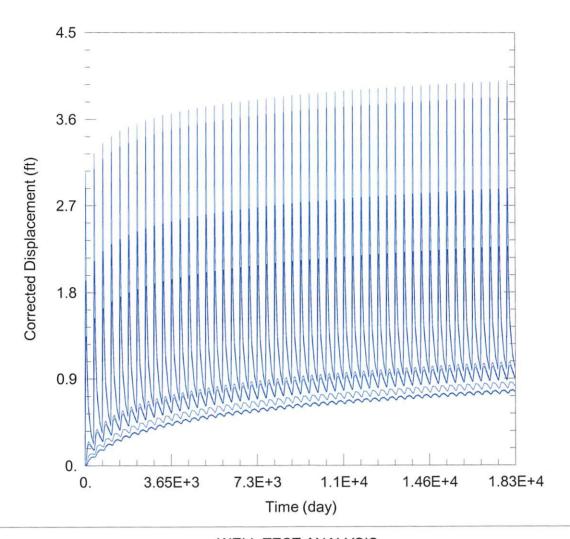
Drawdown from proposed location = 6.59 ft

Net drawdown = 2.6 ft

Net drawdown does not exceed the drawdown allowance of 3.5 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\2021 Moves\13279\13279 Current.aqt

Date: 03/22/21

Time: 14:04:46

PROJECT INFORMATION

Company: GMD 3 Project: 13279

Location: Finney County

Test Well: 13279

Well Name

13279

WELL DATA

Pumping Wells

X (ft) Y (ft)

37503 326689

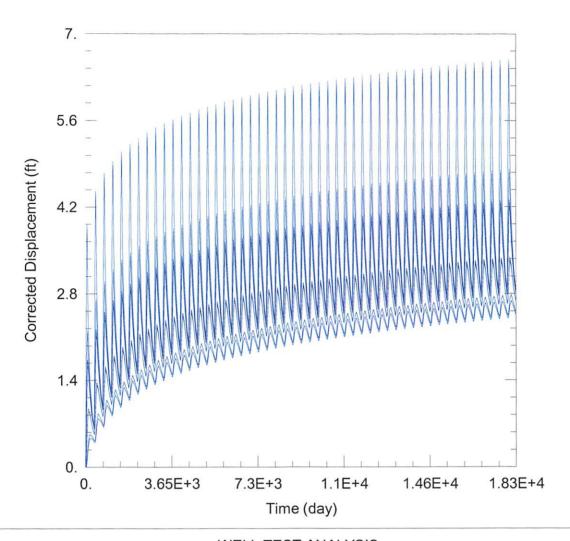
Well Name	X (ft)	Y (ft)
	37503	326689
□ 22138 ID6	36290	325660
□ 22138 ID8	38108	327764
9517	33428	325678
· 23788	33367	328289
22737	30766	328286
Domestic 1	33802	332676
Domestic 2	33131	330674
Domestic 3	37030	327340

Observation Wells

SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2021_Moves\13279\13279 Proposed.aqt

Date: 03/22/21

Time: 14:04:39

PROJECT INFORMATION

Company: GMD 3 Project: 13279

Location: Finney County

Test Well: 13279

Well Name

13279

WELL DATA

Pumping Wells

X (ft) Y (ft)

35934 328279

Well Name	X (ft)	Y (ft)
	35934	328279
□ 22138 ID6	36290	325660
□ 22138 ID8	38108	327764
□ 9517	33428	325678
· 23788	33367	328289
22737	30766	328286
Domestic 1	33802	332676
Domestic 2	33131	330674
Domestic 3	37030	327340

Observation Wells

SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis