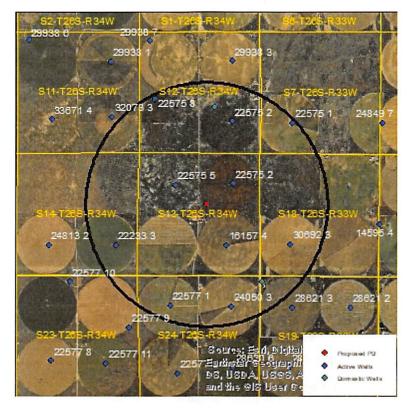
Evaluation of proposed move for Water Right No 22575 D1

Proposed: Move water right no. 22575 D1 ID2 in section 13-26-34 a distance of 1465 ft to the southwest.



Wells within 1 mile: 22575 ID5, 22575 ID2, 22575 ID8, 22575 ID1, 16157, 22233, 22677, 24050, 30692, a domestic well in section 12-26-34, and a domestic well in section 19-26-33.

The saturated thickness at the proposed well location is estimated to be 214 ft, based upon the GMD3 model. 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 = 0.1707, T = 5199 ft²/day, $tp_{current} = 54$ days (based upon average use and observed rate), $Q_{current} = 259$ gpm (based upon 2011 field inspection), $tp_{proposed} = 62$ days, $Q_{proposed} = 1000$ gpm

Theis drawdowns were calculated as follows:

22575 ID5: Drawdown from current location = 0.73 ft

Drawdown from proposed location = 4.67 ft

Net drawdown = 3.9 ft

22575 ID2: Drawdown from current location = 0.70 ft

Drawdown from proposed location = 2.43 ft

Net drawdown = 1.7 ft

22575 ID8: Drawdown from current location = 0.46 ft

Drawdown from proposed location = 2.01 ft

Net drawdown = 1.6 ft

22575 ID1: Drawdown from current location = 0.55 ft

Drawdown from proposed location = 2.00 ft

Net drawdown = 1.4 ft

16157: Drawdown from current location = 0.70 ft

Drawdown from proposed location = 3.95 ft

Net drawdown = 3.2 ft

22233: Drawdown from current location = 0.42 ft

Drawdown from proposed location = 2.23 ft

Net drawdown = 1.8 ft

22677: Drawdown from current location = 0.41 ft

Drawdown from proposed location = 2.14 ft

Net drawdown = 1.7 ft

24050: Drawdown from current location = 0.44 ft

Drawdown from proposed location = 2.16 ft

Net drawdown = 1.7 ft

30692: Drawdown from current location = 0.56 ft

Drawdown from proposed location = 2.33 ft

Net drawdown = 1.8 ft

Domestic 12-26-34: Drawdown from current location = 0.58 ft

Drawdown from proposed location = 2.27 ft

Net drawdown = 1.69 ft

Domestic 19-26-33: Drawdown from current location = 0.50 ft

Drawdown from proposed location = 2.29 ft

Net drawdown = 1.8 ft

Net drawdown does not exceed the drawdown allowance of 4.0 ft for any wells within 1 mile of the proposed point of diversion, so critical well analysis is not necessary.

Conclusion:

The proposed change should result in minimal effects on neighboring wells and is unlikely to create an impairment situation. GMD3 staff recommends approval of the application.