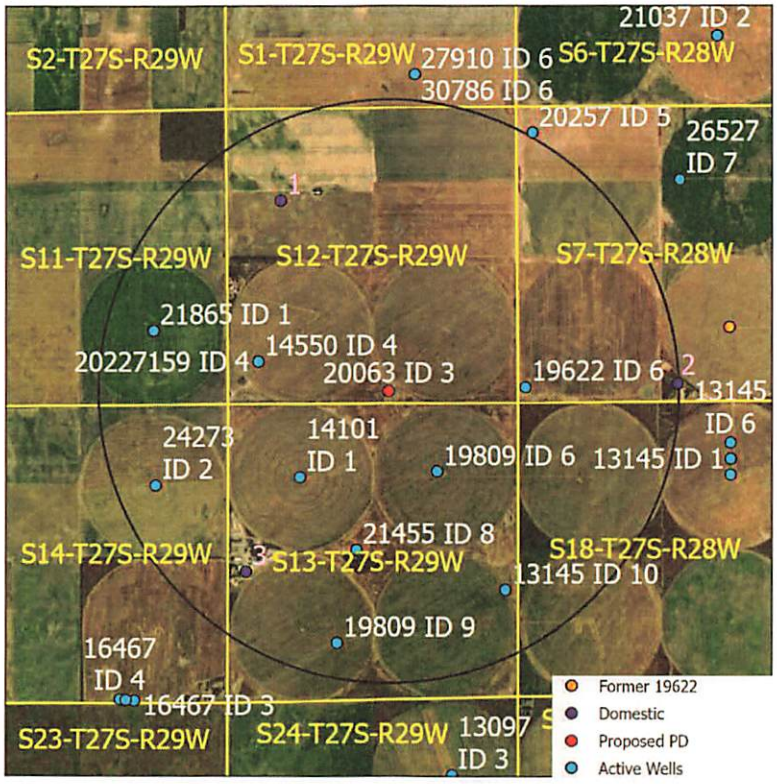
Evaluation of proposed move for Water Right Nos. 19622 and 20063

Proposed: Move water right no. 20063 to the well currently authorized under water right no. 19622. Move water right no. 19622 to the well currently authorized under water right no. 20063.



Wells within 1 mile: 21865, 14550, 24273, 14101, 19809 ID6, 21455, 19809 ID9, 13145, and three domestic wells, labeled on the map above.

The saturated thickness at the proposed well location is estimated to be 87 ft, based upon the GMD3 model. For saturated thickness between than 75 ft and 100 ft, the drawdown allowance is 2.0 ft.

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

S = 0.001403, T = 20,300 ft^2/day,

19622: $tp_{current}$ = 37 days, $Q_{current}$ = 100 gpm, $tp_{proposed}$ = 365 days, $Q_{proposed}$ = 161 gpm

20063: $tp_{current}$ = 224 days, $Q_{current}$ = 135 gpm, $tp_{proposed}$ = 49 days, $Q_{proposed}$ = 915 gpm

Theis drawdowns were calculated as follows:

21865: Drawdown from current location = 0.95 ft

Drawdown from proposed location = 3.75 ft

Net drawdown = **2.8 ft**

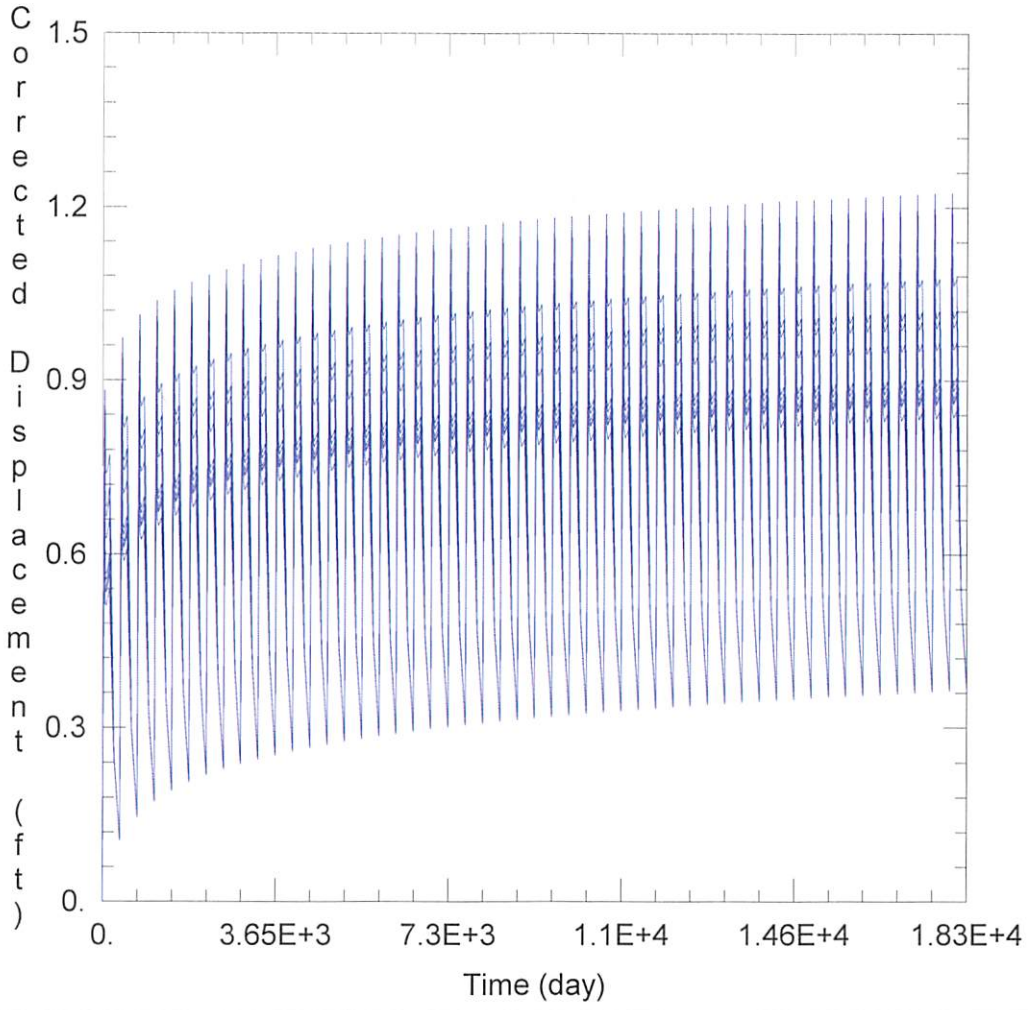
14550:	Drawdown from current location = 1.10 ft
	Drawdown from proposed location = 4.35 ft
	Net drawdown = **3.3 ft**
	2023 net drawdown = 3.2
	Cumulative drawdown = **0.1**
24273:	Drawdown from current location = 0.94 ft
	Drawdown from proposed location = 3.72 ft
	Net drawdown = **2.8 ft**
14101:	Drawdown from current location = 1.12 ft
	Drawdown from proposed location = 4.51 ft
	Net drawdown = **3.39 ft**
	2023 net drawdown = 3.3
	Cumulative drawdown = **0.0**
19809 ID6:	Drawdown from current location = 1.23 ft
	Drawdown from proposed location = 5.52 ft
	Net drawdown = **4.29 ft**
	2023 net drawdown = 4.1
	Cumulative drawdown = **0.1**
21455:	Drawdown from current location = 1.07 ft
	Drawdown from proposed location = 4.49 ft
	Net drawdown = **3.4 ft**
	2023 net drawdown = 3.3
	Cumulative drawdown = **0.1**
19809 ID9:	Drawdown from current location = 0.96 ft
	Drawdown from proposed location = 3.97 ft
	Net drawdown = **3.0 ft**

13145:	Drawdown from current location = 1.03 ft
	Drawdown from proposed location = 4.60 ft
	Net drawdown = **3.6 ft**
	2023 net drawdown = 3.5
	Cumulative drawdown = **0.1**
Domestic 1:	Drawdown from current location = 1.00 ft
	Drawdown from proposed location = 4.05 ft
	Net drawdown = **3.1 ft**
Domestic 2:	Drawdown from current location = 1.22 ft
	Drawdown from proposed location = 4.94 ft
	Net drawdown = **3.7 ft**
	2023 net drawdown = 3.6
	Cumulative drawdown = **0.1**
Domestic 3:	Drawdown from current location = 0.97 ft
	Drawdown from proposed location = 3.92 ft
	Net drawdown = **3.0 ft**

Conclusion:

Most wells within 1 mile were flagged as critical wells in the 2023 move analysis. Five wells were not within 1 mile of the 2023 report. These wells include water right nos. 21865, 24273, 19809 ID9, Domestic 1, and Domestic 3. Critical well analysis was not run because of how low the cumulative net drawdown was on every other well, keeping in mind that the 2023 move has already been approved and that this application just moves 60 AF of authority. Concerned neighbors should contact GMD3 at (620) 275-7147 or the Division of Water Resources at (620) 276-2901.

Brand	Manufacturer	Model	Technology	Requirements
Hidroconta	Hidroconta	Nautilus	Ultrasonic	Minimum 2 ross drilledFlange bolts and tamper-evident register security seal.
Lindsay		Growsmart IM3000	Electromagnetic	Meter must be provided with 2 wires with seals installed on sides of the meter face plate.
McCrometer	McCrometer	Duramag	Electromagnetic	Register must be equipped with a cross-drilled screw and tamper-evident wire seal.
McCrometer	McCrometer	McMag 2000	Electromagnetic	Register must be equipped with a tamper-evident wire seal. Both register and saddle must have atag or label indicating the pipe ID. Spacing is measured from the sensor, located 9" upstream of register.
McCrometer	McCrometer	MD & MO 300	Popeller	
Netafim/ARAD	Netafim	Octave	Ultrasonic	Cross-drilled flange bolts. Note: These are accepted under a waiver of the requirements for straightening vanes. Air relief vent must be installed upstream of the meter.
Seametrics	Seametrics	AG2000	Electromagnetic	Must be properly frounded and installed 45 degrees according to manufacturer requirements.
Seametrics	Seametrics	AG3000	Electromagnetic	Shipped pre-calibrated for the correct pipe size. Access to the converter will be secured with a wire passed through one of two holes in the converter housing and the wire will be secured with a Seametrics seal bearing a non-repeatable identifying number. Meter must be properly grounded and installed turned 45 degrees according to manufacturers reccomendations.
Seametrics	Seametrics	AG90	Electromagnetic	The flowmeter shall be installed in a manufacturer approved measuring tube bearing a weather-resistant label indicating the inside and outside diameter of the tube. The flowmeter shall bear a weather-resistant label indicating the inside diameter that the flowmeter is calibrated to. The flowmeter shall be sealed tot the saddle with a tamper-evident wire seal. The flowmeter register shall be equipped with a tamper-evident security seal to prevent unauthorized removal of register cover. Yhe flowmeter shall be configured to measure gallons, acre-feet or acre-inches. The sensor sample period shall be set to 15 seconds.
Valley	Seametrics	3000	Electromagnetic	Shipped pre-calibrated for the correct pipe size. Access to the converter will be secured with a wire passed through one of two holes in the converter housing and the wire will be secured with a Seametrics seal bearing a non-repeatable identifying number. Note: Same meter as Seametrics AG3000
Valley	Seametrics	3000i	Electromagnetic	The flowmeter shall be installed in a manufacturer approved measuring tube bearing a weather-resistant label indicating the inside and outside diameter of the tube. The flowmeter shall bear a weather-resistant label indicating the inside diameter that the flowmeter is calibrated to. The flowmeter shall be sealed tot the saddle with a tamper-evident wire seal. The flowmeter register shall be equipped with a tamper-evident security seal to prevent unauthorized removal of register cover. Yhe flowmeter shall be configured to measure gallons, acre-feet or acre-inches. The sensor sample period shall be set to 15 seconds.



WELL TEST ANALYSIS

Data Set: C:\Users\scanstation\Documents\move requests\19622\19622\19622 current.aqt
Date: 05/28/24 Time: 16:32:41

PROJECT INFORMATION

Test Well: 19622

WELL DATA

Pumping Wells

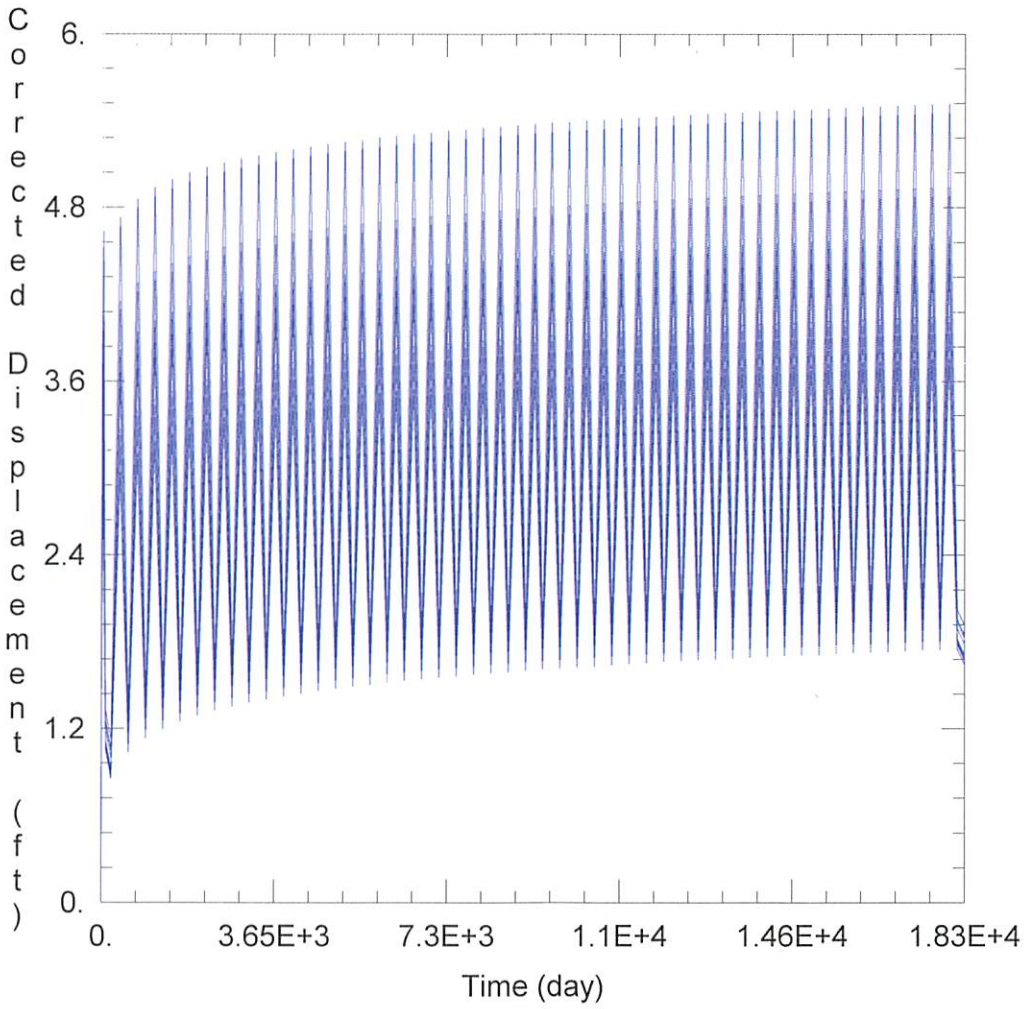
Well Name	X (ft)	Y (ft)
19622	109726	304890
20063	103520	303733

Observation Wells

Well Name	X (ft)	Y (ft)
▫	109726	304890
▫	103520	303733
▫ 21865	99237	304835
▫ 14550	101148	304274
▫ 24273	99276	302031
▫ 14101	101908	302176
▫ 19809 ID6	104396	302276
▫ 21455	102926	300858
▫ 19809 ID9	102579	299178
▫ 13145	105649	300133
▫ Domestic 1	101556	307181
▫ Domestic 2	108787	303884
▫ Domestic 3	100928	300464

SOLUTION

Aquifer Model: Unconfined Solution Method: Theis



WELL TEST ANALYSIS

Data Set: C:\Users\scanstation\Documents\move requests\19622\19622\19622 proposed.aqt
Date: 05/28/24 Time: 16:33:17

PROJECT INFORMATION

Test Well: 19622

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
19622	103520	303733
20063	106010	303812

Observation Wells

Well Name	X (ft)	Y (ft)
▫	103520	303733
▫	106010	303812
▫ 21865	99237	304835
▫ 14550	101148	304274
▫ 24273	99276	302031
▫ 14101	101908	302176
▫ 19809 ID6	104396	302276
▫ 21455	102926	300858
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SOLUTION

Aquifer Model: Unconfined Solution Method: Theis