

6068: Drawdown from current location = 0.85 ft
Drawdown from proposed location = 4.64 ft
Net drawdown = **3.79 ft**

811 & 8115: Drawdown from current location = 0.71 ft
Drawdown from proposed location = 3.73 ft
Net drawdown = **3.0 ft**

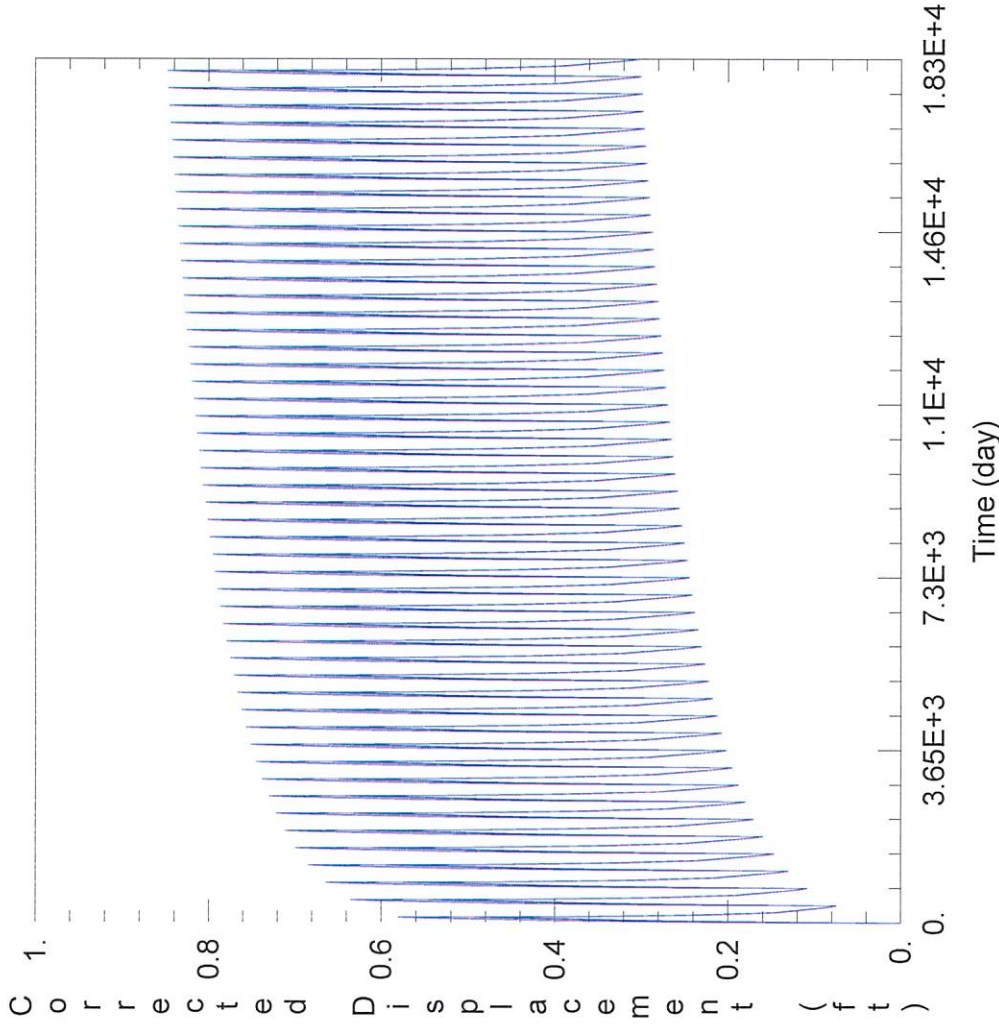
Domestic 1: Drawdown from current location = 0.71 ft
Drawdown from proposed location = 3.71 ft
Net drawdown = **3.0 ft**

Domestic 2: Drawdown from current location = 0.83 ft
Drawdown from proposed location = 4.52 ft
Net drawdown = **3.7 ft**

Net drawdown exceeds the drawdown allowance for the wells authorized under water right nos. 445 & 11237, 10177, 6068, 811 & 8115, and both domestic wells. Critical well analysis was not performed because projected declines exceed the remaining saturated thickness of the Ogallala Aquifer.

Conclusion:

The GMD3 model projects declines greater than the remaining 66 ft of Ogallala Aquifer, so all neighboring wells are considered critical. There is still existing water in the deeper Dakota formation, but that water is more expensive to access and pumping rates are expected to be lower. Concerned neighbors should contact GMD3 at (620) 275-7147 or the Division of Water Resources at (620) 276-2901.



WELL TEST ANALYSIS

Data Set: C:\Users\scanstation\Documents\move requests\11237\11237 current.aqt
 Date: 10/08/24 Time: 11:45:22

PROJECT INFORMATION

Test Well: 11237

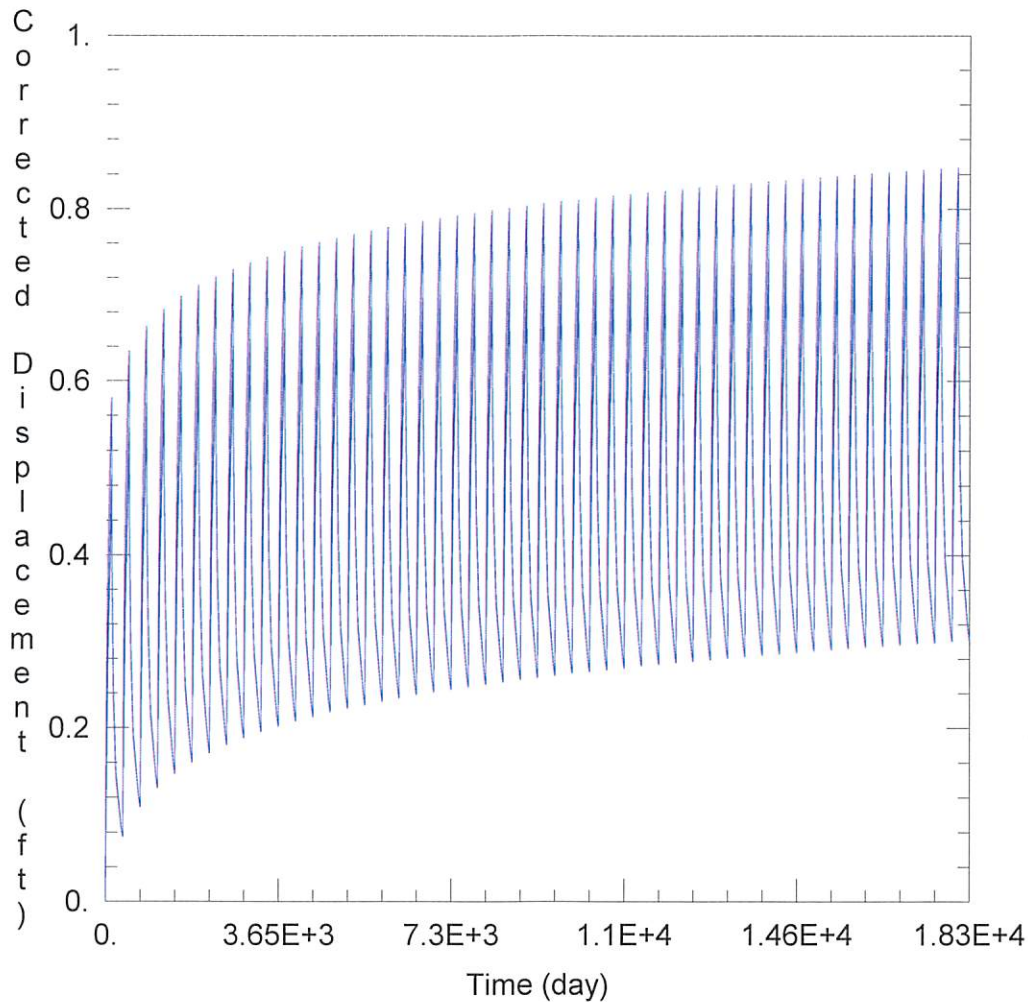
WELL DATA

Pumping Wells		Observation Wells	
Well Name	X (ft)	Well Name	Y (ft)
11237	-248458	445 & 11237	226219
		10177	230297
		6068	230699
		811 & 8115	225349
		Domestic 1	221039
		Domestic 2	230093
			222815

SOLUTION

Aquifer Model: Unconfined
 $T = 3.561E+4 \text{ ft}^2/\text{day}$
 $Kz/Kr = 1.$

Solution Method: Theis
 $S = 0.036$
 $b = 66.3 \text{ ft}$



WELL TEST ANALYSIS

Data Set: C:\Users\scanstation\Documents\move requests\11237\11237 proposed.aqt
 Date: 10/08/24 Time: 11:47:36

PROJECT INFORMATION

Test Well: 11237

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
11237	-248458	226219

Observation Wells

Well Name	X (ft)	Y (ft)
□	-248458	226219
□ 445 & 11237	-251258	230297
□ 10177	-247339	230699
□ 6068	-244935	225349
□ 811 & 8115	-247934	221039
□ Domestic 1	-251981	230093
□ Domestic 2	-250131	222815

SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis

T = 3.561E+4 ft²/day
 Kz/Kr = 1.

S = 0.036
 b = 66.3 ft