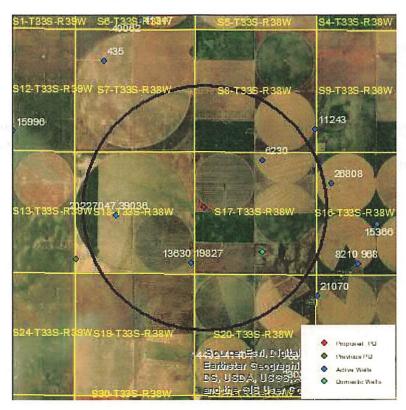
#### Evaluation of proposed move for Water Right No. 39036

Proposed: Move water right no. 39036 to a new well location, a distance of 1,207 ft to the northeast. This water right was recently moved two other times, so drawdown effects were calculated from the previous location, in the SW ¼ of section 18-33-38.



Wells within 1 mile: 13630 & 19827, 6230, and a domestic well in section 17-33-38.

The saturated thickness at the proposed well location is estimated to be 195 ft, based upon the GMD3 model. 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 = 0.0607, T = 14,178 ft<sup>2</sup>/day,  $tp_{current} = 98$  days (based on average use and observed rate),  $Q_{current} = 172$  gpm (based on 2014 field inspection),  $tp_{proposed} = 112$  days,  $tq_{proposed} = 375$  gpm

Theis drawdowns were calculated as follows:

13630 & 19827:

Drawdown from current location = 0.39 ft

Drawdown from proposed location = 1.43 ft

Net drawdown = 1.0 ft

6230:

Drawdown from current location = 0.25 ft

Drawdown from proposed location = 1.23 ft

Net drawdown = 1.0 ft

Domestic 17-33-38:

Drawdown from current location = 0.28 ft

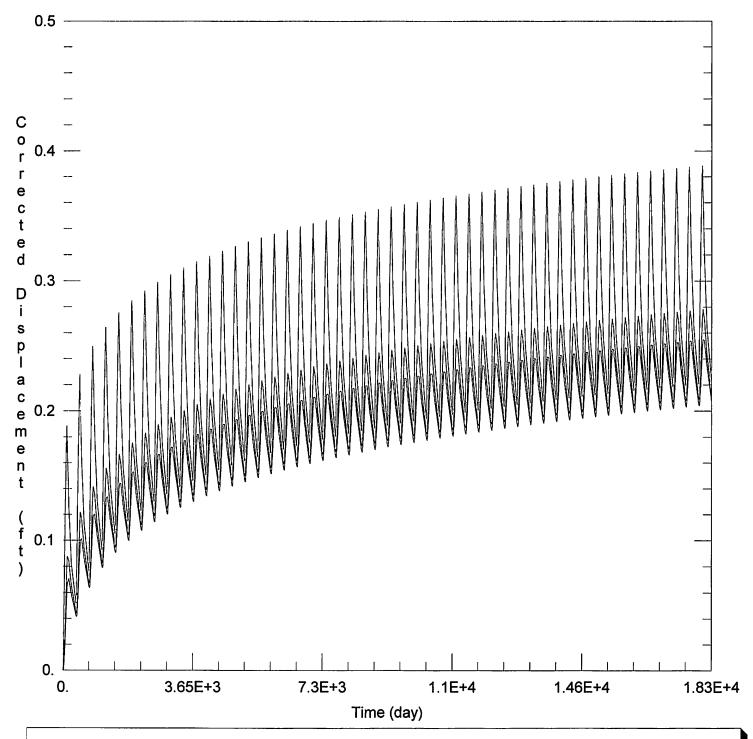
Drawdown from proposed location = 1.25 ft

Net drawdown = 1.0 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 appears unlikely to cause impairment. Any 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\trevora\Documents\2023\_moves\39036\_HOP\39036 Current.aqt

Date: 11/20/23 Time: 14:43:01

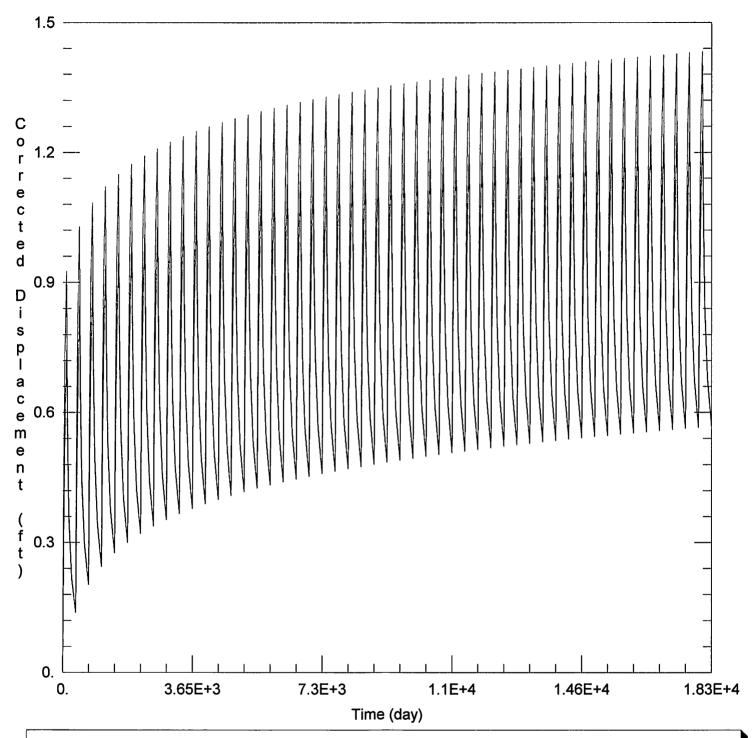
# PROJECT INFORMATION

Company: GMD 3 Project: 39036

Location: Stevens County

### **WELL DATA**

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
39036	-204446	108785	0	-204446	108785
			n 12620 9 10027	100425	100617



# **WELL TEST ANALYSIS**

Data Set: C:\Users\trevora\Documents\2023\_moves\39036\_HOP\39036 Proposed.aqt

Date: 11/20/23 Time: 14:42:55

### PROJECT INFORMATION

Company: GMD 3 Project: 39036

Location: Stevens County

## **WELL DATA**

Y (ft)

111003

102617

	Pumping Wells	Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)
39036	-198864	111003	0	-198864
			n 13630 & 10827	_100/135