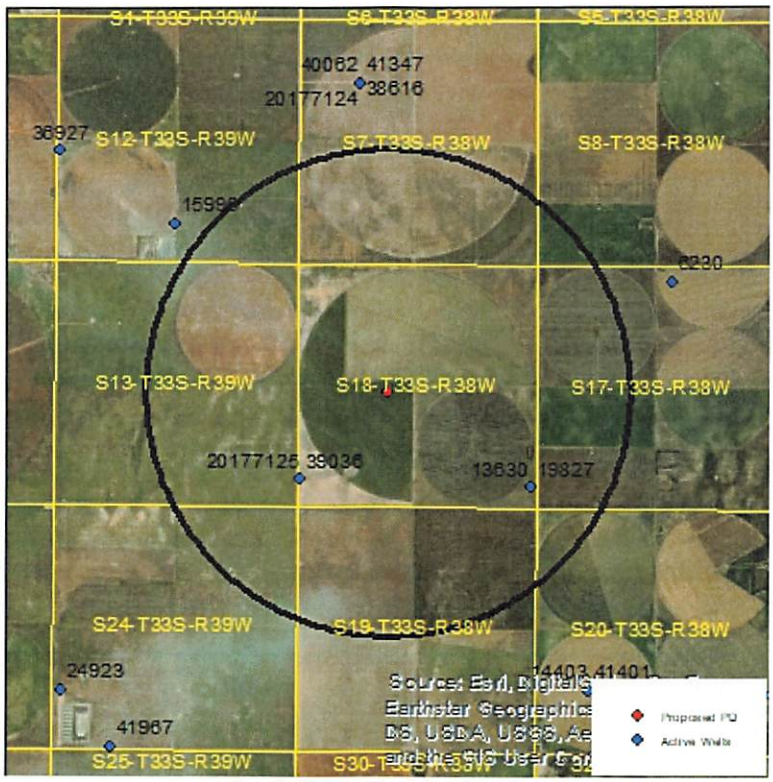
Evaluation of proposed move for Water Right No. 39036

Proposed: Move water right no. 39036 a distance of 2,669 ft to the northeast.



Wells within 1 mile: 13630 & 19827

The saturated thickness at the proposed well location is estimated to be 218 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 = 0.2631, T = 9909.5 ft^2/day, $tp_{current}$ = 95 days (based on average use and observed rate), $Q_{current}$ = 172 gpm (based on 2014 field inspection), $tp_{proposed}$ = 112 days, $Q_{proposed}$ = 375 gpm

Theis drawdowns were calculated as follows:

13630 & 19827: Drawdown from current location = 0.30 ft

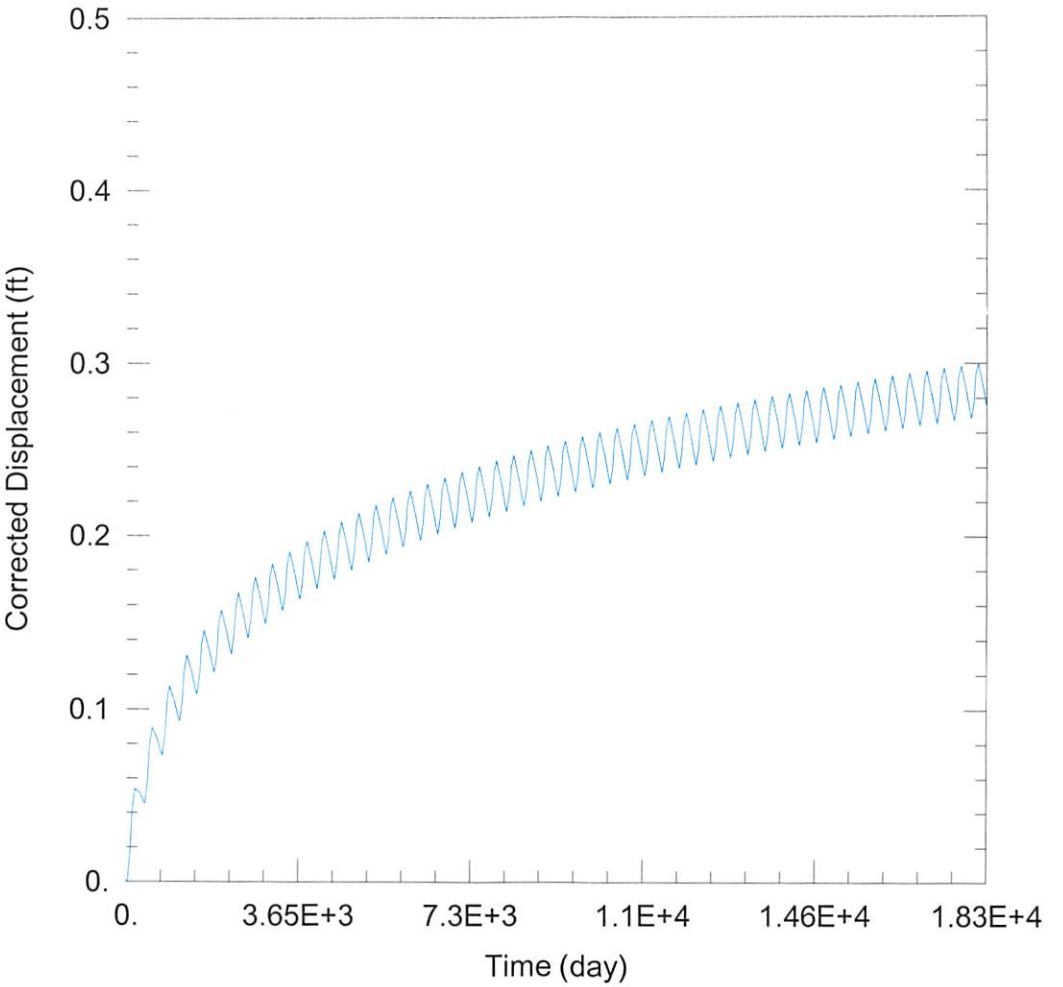
Drawdown from proposed location = 0.93 ft

Net drawdown = **0.6 ft**

Net drawdown does not exceed the drawdown allowance of 4.0 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\2022_moves\39036\39036 Current.aqt
Date: 01/27/22 Time: 09:17:33

PROJECT INFORMATION

Company: GMD 3
Project: 39036
Location: Stevens County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
39036	-204446	108785

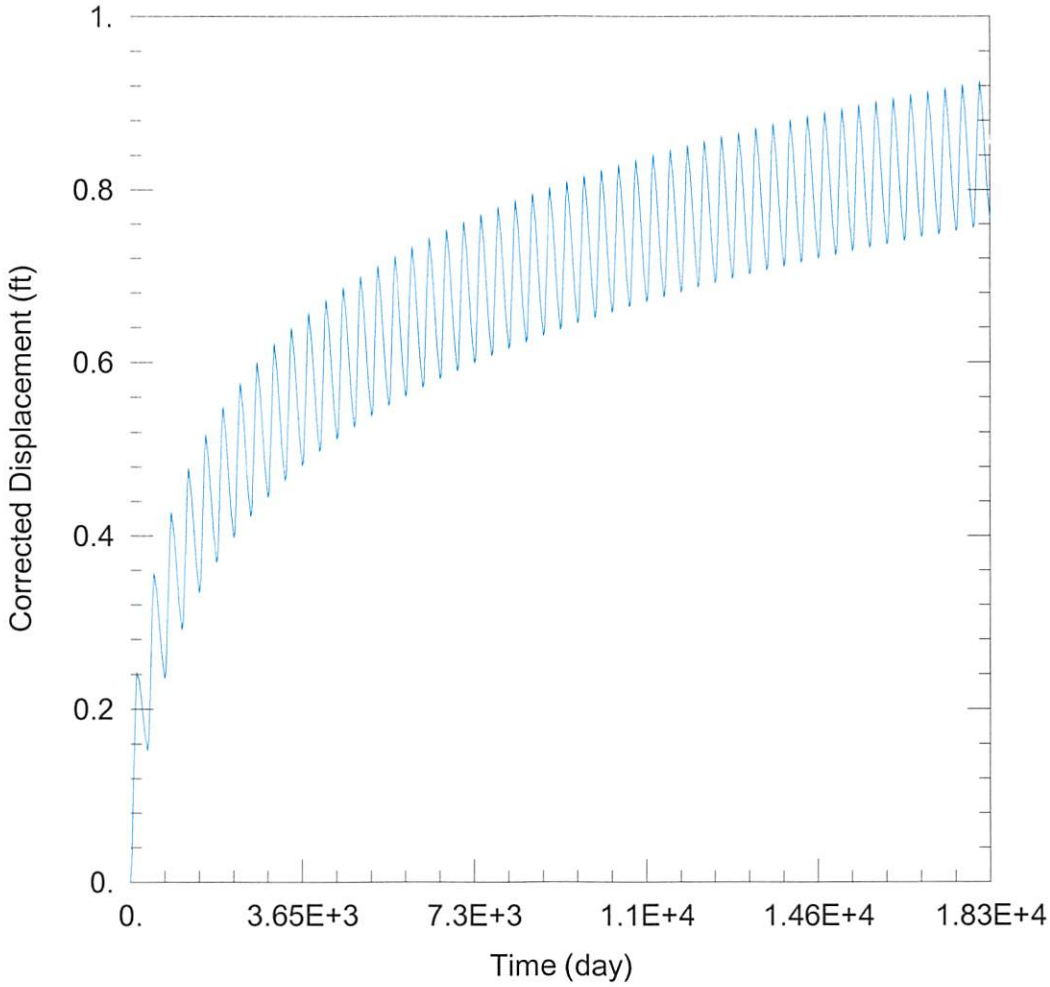
Observation Wells

Well Name	X (ft)	Y (ft)
▫	-204446	108785
▫ 13630 & 19827	-199435	108617

SOLUTION

Aquifer Model: Unconfined
Solution Method: Theis

T = 9909.5 ft^2/day
S = 0.2631
Kz/Kr = 1.
b = 218. ft



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2022_moves\39036\39036 Proposed.aqt
Date: 01/27/22 Time: 09:17:27

PROJECT INFORMATION

Company: GMD 3
Project: 39036
Location: Stevens County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
39036	-202547	110668

Observation Wells

Well Name	X (ft)	Y (ft)
□	-202547	110668
□ 13630 & 19827	-199435	108617

SOLUTION

Aquifer Model: Unconfined
Solution Method: Theis

T = 9909.5 ft^2/day
S = 0.2631
Kz/Kr = 1.
b = 218. ft