

Domestic 4: Drawdown from current location = 6.46 ft
Drawdown from proposed location = 9.73 ft
Net drawdown = **3.3 ft**

Domestic 5: Drawdown from current location = 5.00 ft
Drawdown from proposed location = 8.03 ft
Net drawdown = **3.0 ft**

Domestic 6: Drawdown from current location = 2.66 ft
Drawdown from proposed location = 4.52 ft
Net drawdown = **1.9 ft**

Net drawdown exceeds the drawdown allowance for the wells authorized under water right nos. 18317 ID3, 22605, 25196, 13575, and the domestic wells numbered 1, 2, 4, and 5. Critical well analysis was performed for those wells.

Critical Well Evaluation:

18317 ID3:

Water Column = 96 ft

DP = 2.4 ft (Net drawdown from the proposal indicated above)

DE = 32.9 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DD = 39.4 ft ($S = 0.1664$, $T = 3148 \text{ ft}^2/\text{day}$, $Q = 367 \text{ gpm}$, $t_p = 120 \text{ days}$, efficiency = 70%)

DT = 74.7 ft

Economic Drawdown Constraint (EDC) = $0.4 * 96 \text{ ft} = 38.4 \text{ ft}$

Physical Drawdown Constraint (PDC) = $96 \text{ ft} - 60 \text{ ft} = 36.0 \text{ ft}$

Total drawdown of 74.7 ft is greater than the EDC and the PDC, so this well is **critical**.

Domestic 1:

Water Column = 96 ft

DP = 2.7 ft (Net drawdown from the proposal indicated above)

DE = 32.9 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DT = 35.6 ft

Economic Drawdown Constraint (EDC) = $0.4 * 96 \text{ ft} = 38.4 \text{ ft}$

Physical Drawdown Constraint (PDC) = $96 \text{ ft} - 20 \text{ ft} = 76.0 \text{ ft}$

Total drawdown of 35.6 ft is less than the EDC and the PDC, so this well is **not critical**.

Domestic 2:

Water Column = 68 ft

DP = 2.5 ft (Net drawdown from the proposal indicated above)

DE = 38.0 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DT = 40.5 ft

Economic Drawdown Constraint (EDC) = $0.4 * 68 \text{ ft} = 27.2 \text{ ft}$

Physical Drawdown Constraint (PDC) = $68 \text{ ft} - 20 \text{ ft} = 48.0 \text{ ft}$

Total drawdown of 40.5 ft is greater than the EDC, so this well is **critical**.

Domestic 4:

Water Column = 83 ft

DP = 3.3 ft (Net drawdown from the proposal indicated above)

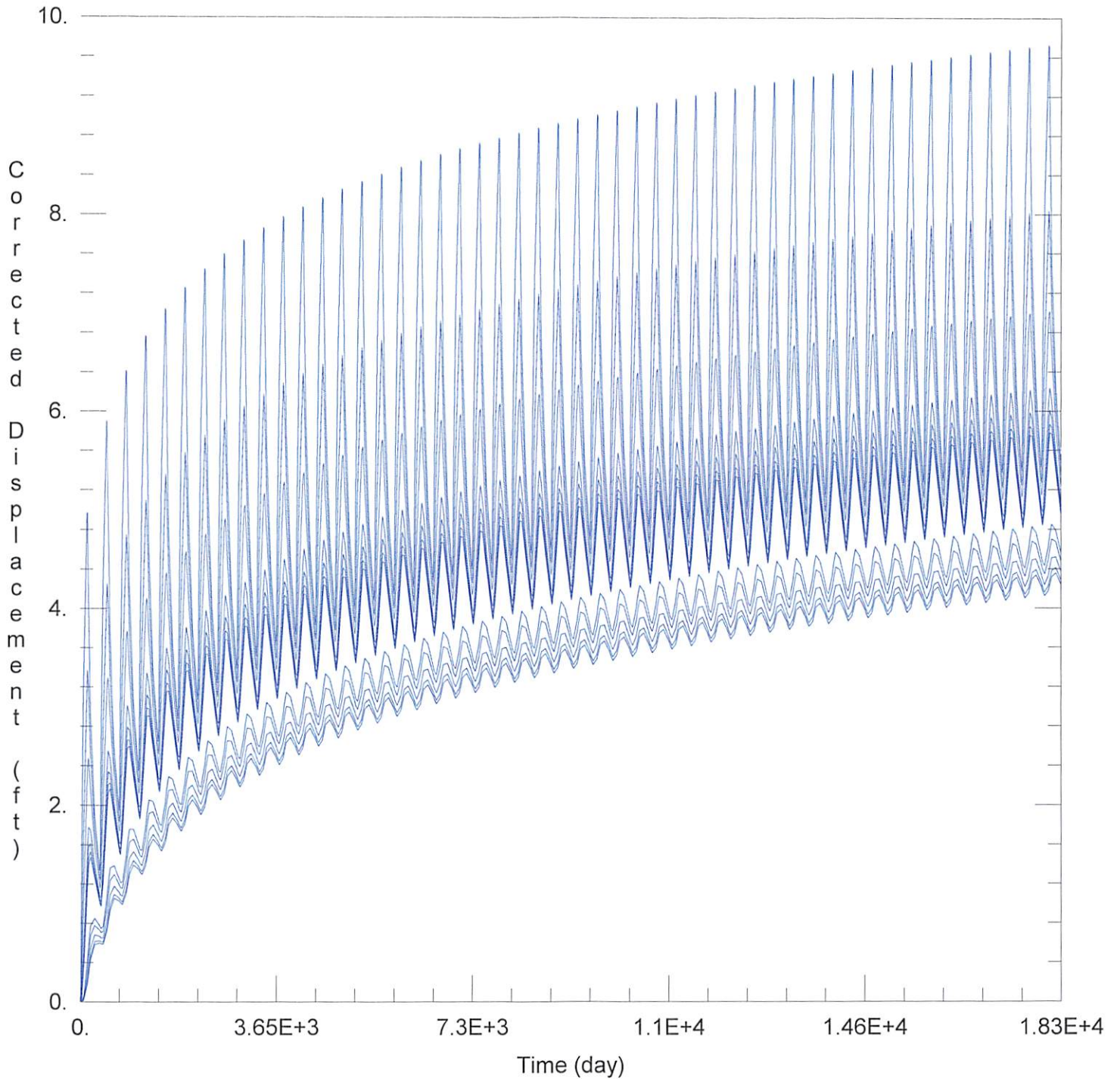
DE = 37.8 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DT = 41.1 ft

Economic Drawdown Constraint (EDC) = $0.4 * 83 \text{ ft} = 33.2 \text{ ft}$

Physical Drawdown Constraint (PDC) = $83 \text{ ft} - 20 \text{ ft} = 63.0 \text{ ft}$

Total drawdown of 41.1 ft is greater than the EDC, so this well is **critical**.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024_moves\13575\13575 Proposed.aqt
 Date: 02/14/24 Time: 14:59:17

PROJECT INFORMATION

Company: GMD 3
 Project: 13575
 Location: Gray County

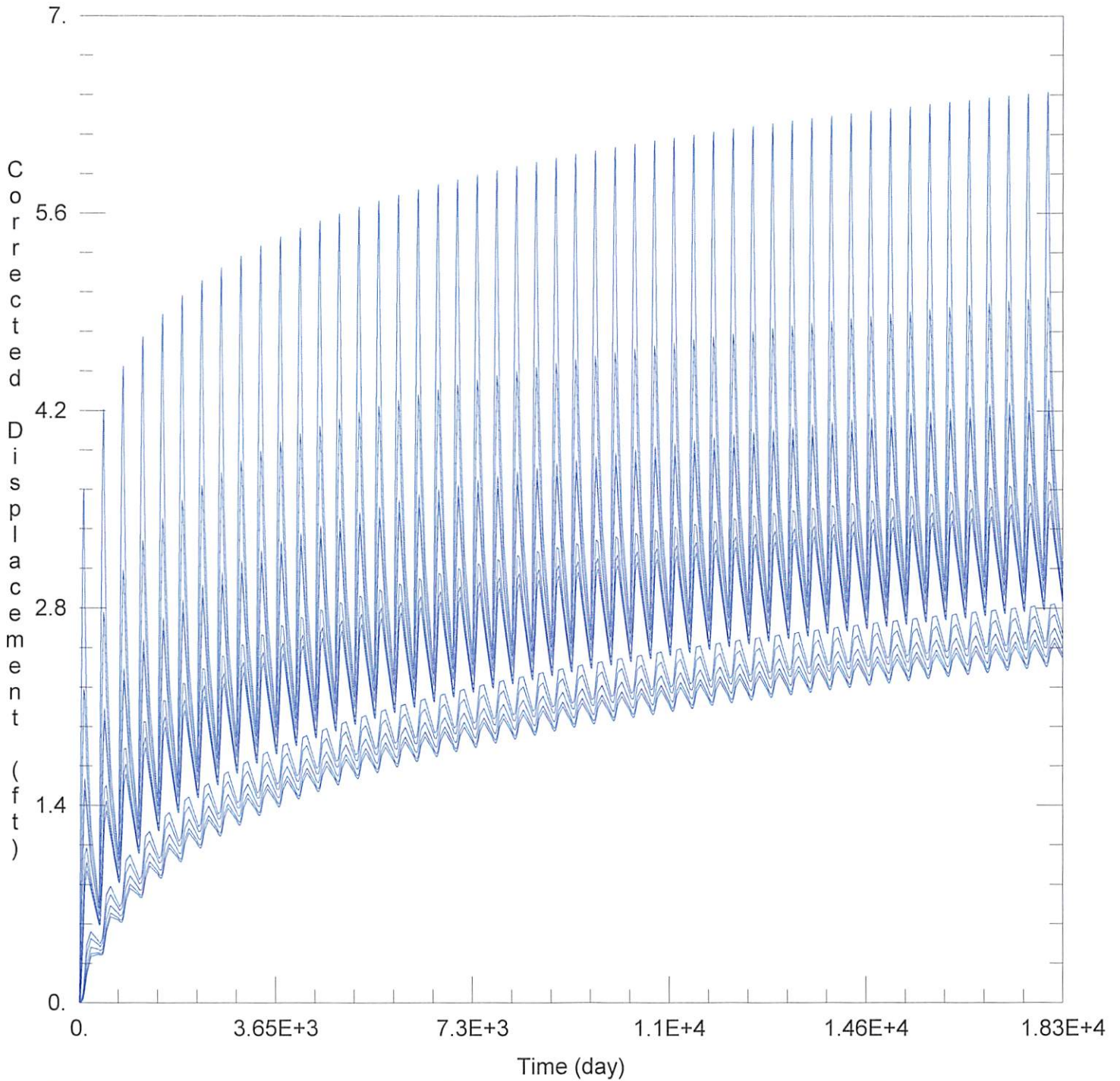
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
13575 & 21073	72803	291471

Observation Wells

Well Name	X (ft)	Y (ft)
□ 18317 ID2	70247	291082



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024_moves\13575\13575 Current.aqt
 Date: 02/14/24 Time: 14:59:23

PROJECT INFORMATION

Company: GMD 3
 Project: 13575
 Location: Gray County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
13575 & 21073	72803	291471

Observation Wells

Well Name	X (ft)	Y (ft)
□ 72803	72803	291471
□ 18317 ID2	70247	291082