

HF-3 Test 1 - Efficiency corrected

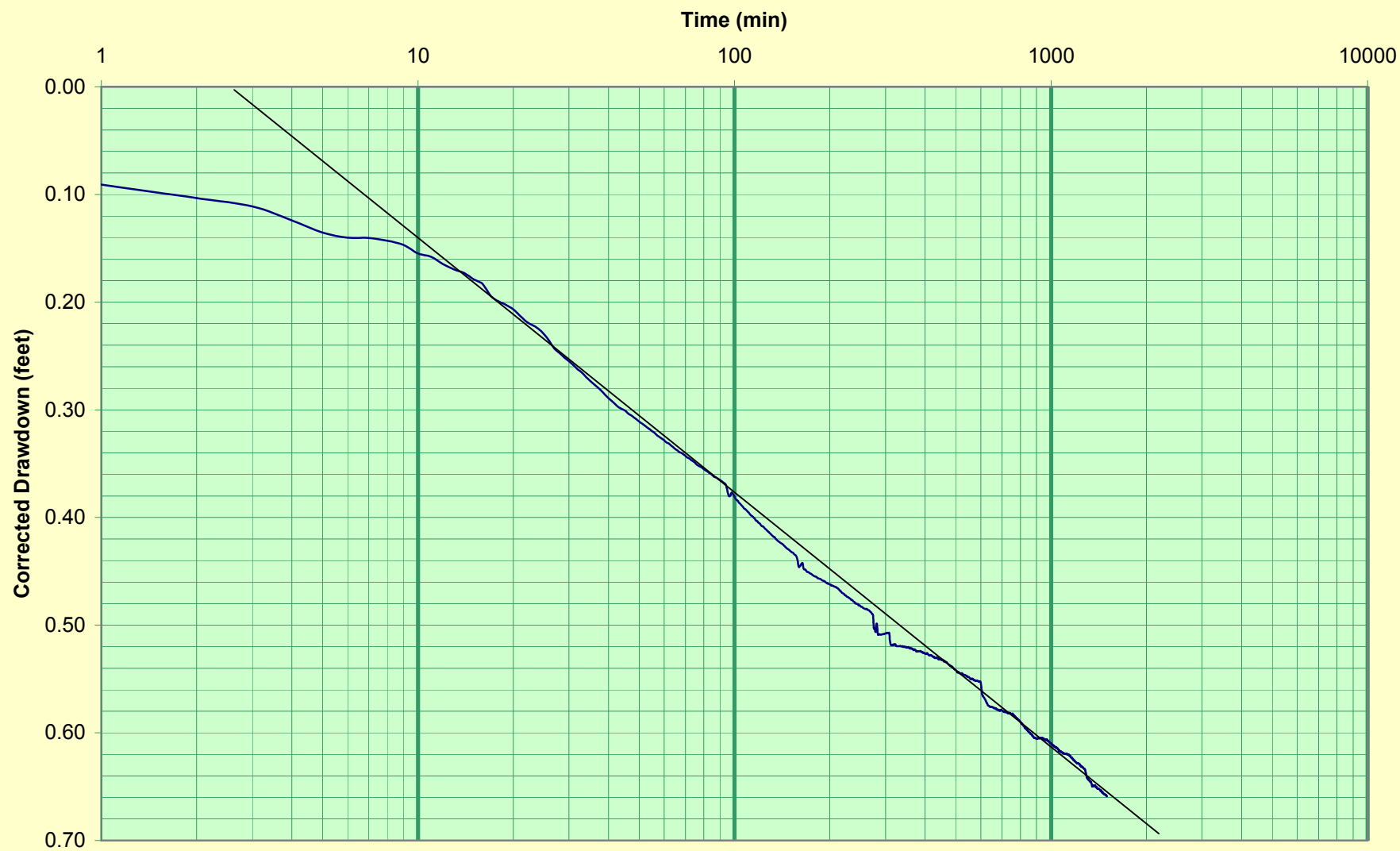


Table 3-1

HF-3 Pre Frac Constant Rate Pumping Test Calculations

Well Efficiency Corrected data

Assuming well Efficiency of 3%

Transmissivity (Cooper Jacob method)

$$T = \frac{264 (Q)}{\Delta s}$$

Where :

T = Transmissivity (gpd/ft)	
Q = Pumping rate (gpm)	0.8 gpm (Constant rate test)
Δs = Drawdown (ft) across one log cycle	0.24 ft (From HF-3 drawdown graph)

Transmissivity = 880 gpd/ft

Hydraulic Conductivity

$$K = T / b$$

Where:

K = Hydraulic conductivity (ft/day)	
T = Transmissivity (ft ² /day)	118 ft ² /day (T in gpd/ft * 0.134)
b = Aquifer Thickness (ft)	41 ft (Static water level minus base of aquifer)

Hydraulic Conductivity = 2.88 ft/day

See Figure 3-2 for Time Drawdown graph for Pre-Frac Pumping Test at HF-3