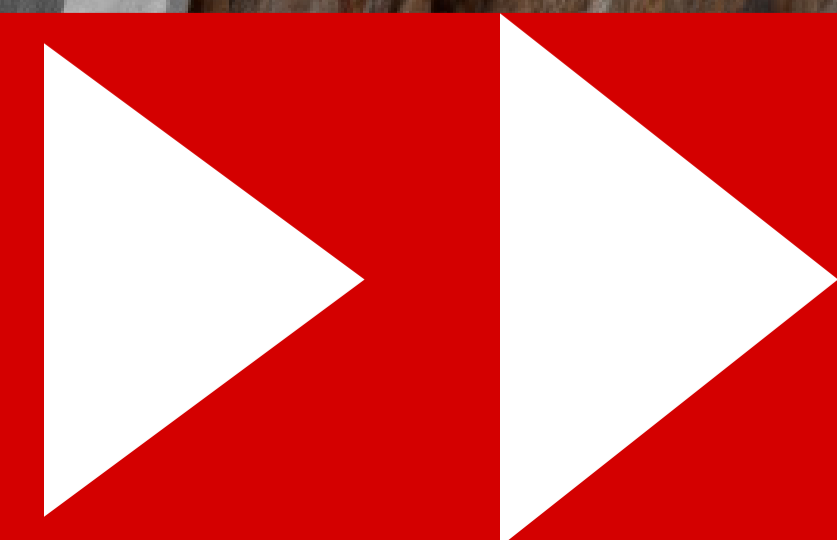




ESP Guardian Shield™

Case Study



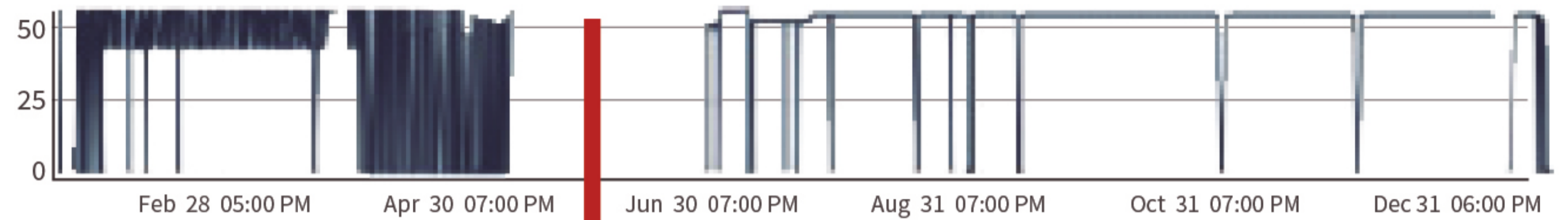
Well Performance Before & After OSI's BHA Design

Most Recent: 1D 4D 1W 1M 6M **1Y**

Motor Frequency

56.00 4:01 pm
hz

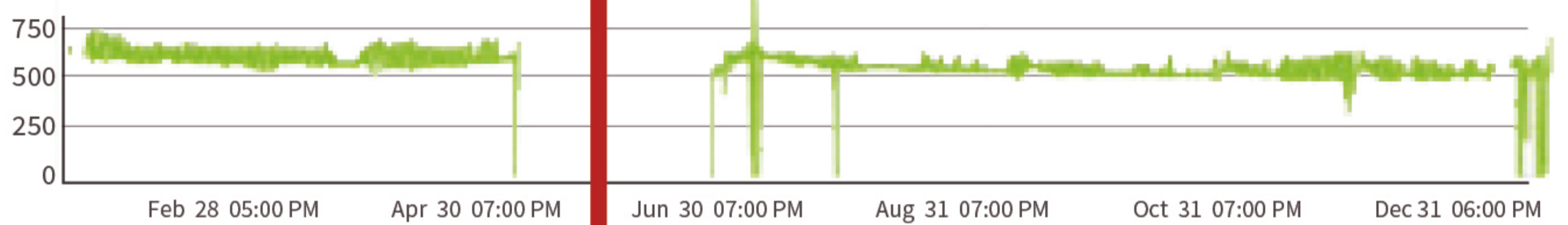
∨ 0.00 ∨ 65.00 ∨ 65.00 ∨ 47.76



Pump Intake

549.1 4:01 pm
psi

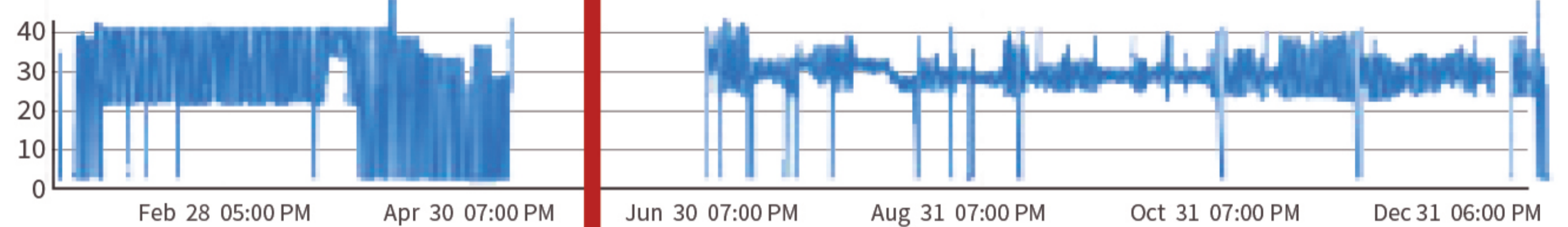
∨ 0.0 ∨ 915.6 ∨ 915.6 ∨ 596.3



Motor Current

27.9 4:01 pm
amps

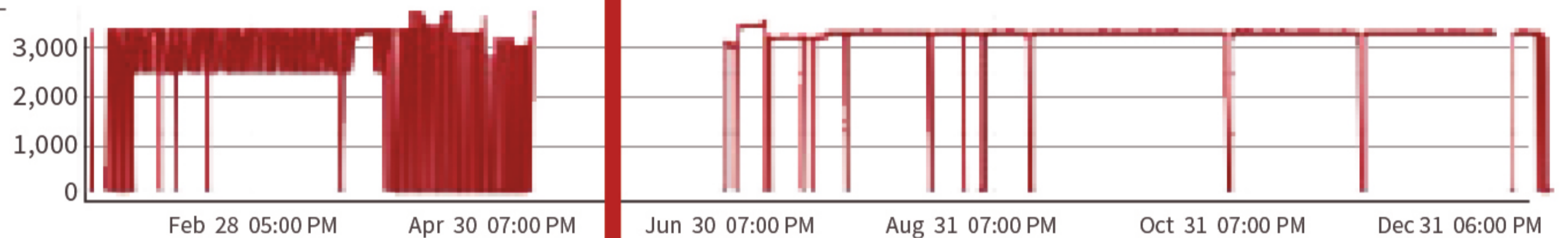
∨ 0.0 ∨ 44.1 ∨ 44.1 ∨ 24.2



Motor Voltage

2,707 4:01 pm
volts

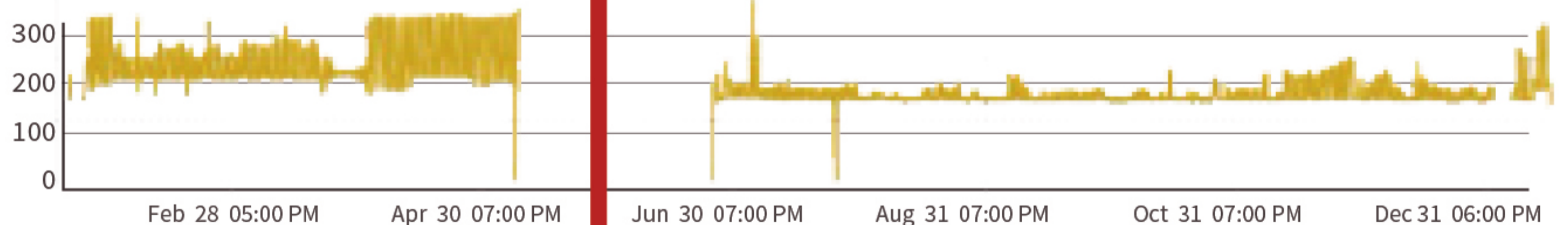
∨ 0 ∨ 3,028 ∨ 3,028 ∨ 2,221



Motor Temperature

136.0 4:01 pm
F

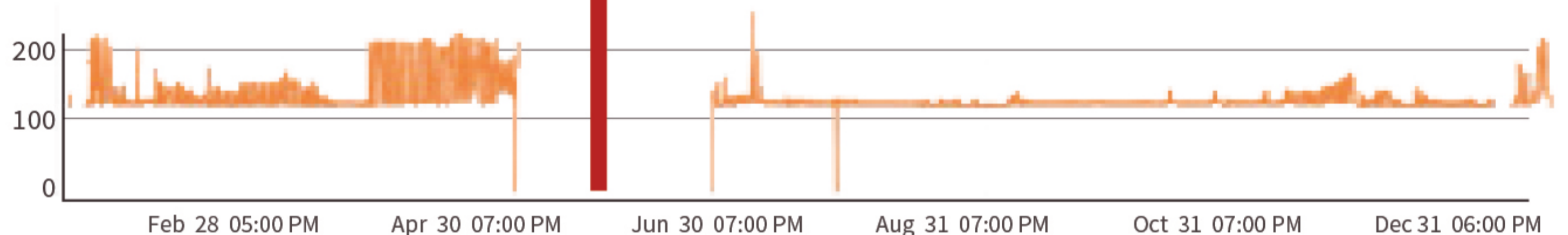
∨ 0.0 ∨ 292.6 ∨ 292.6 ∨ 174.2



Fluid Temperature

135.0 4:01 pm
F

∨ 0.0 ∨ 274.8 ∨ 274.8 ∨ 147.1

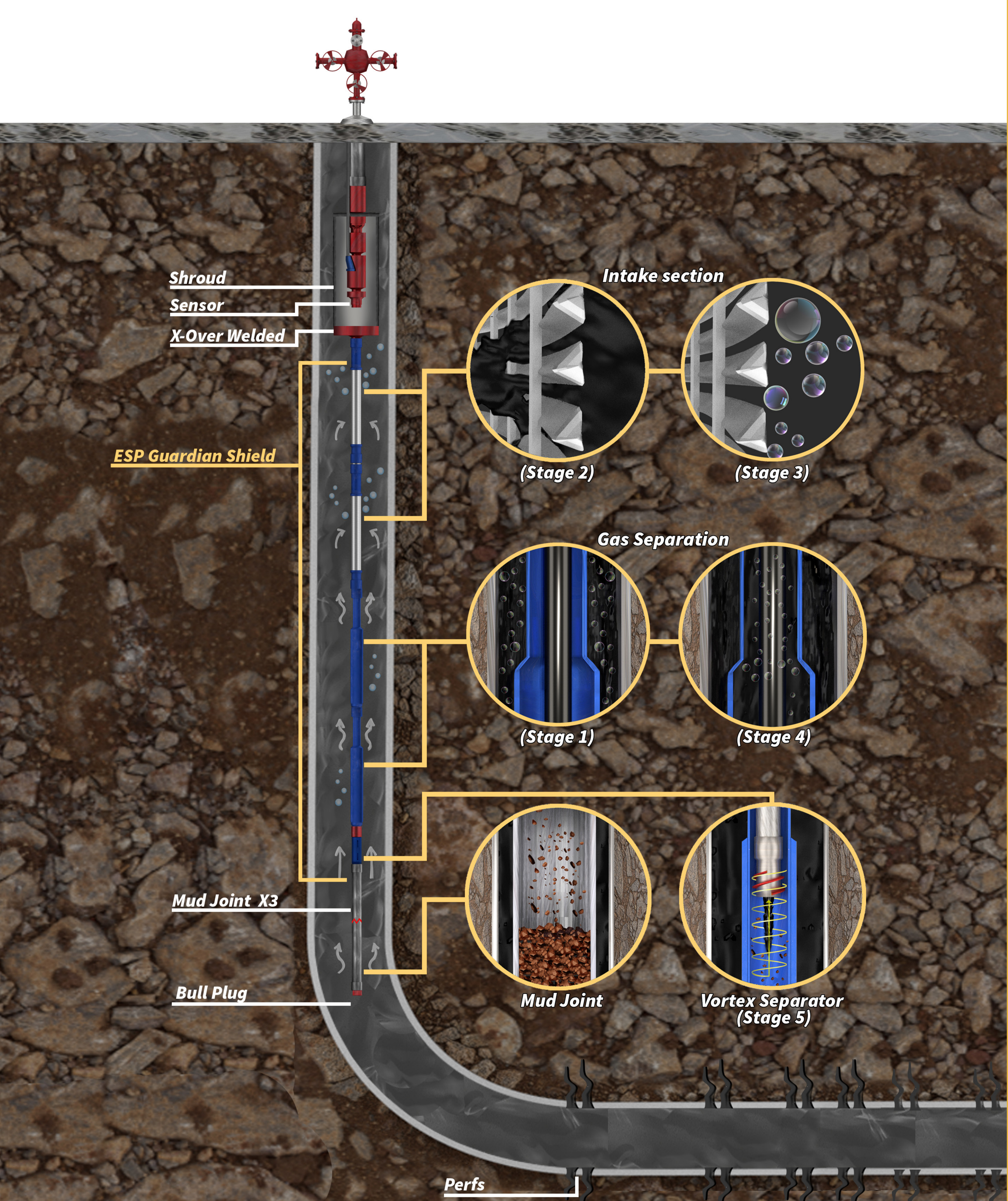


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- Average motor temperature and Fluid temperature almost dropped by 100° F. Average motor temperature dropped from 182.3° F to 139.3° F after OSI's tool installation
- The difference between motor temperature and fluid temperature is 2° F indicating high gas separation efficiency with negligible free gas presence
- Along with that, the fluctuations in the temperature has reduced and become constant which hadn't been observed before
- Motor frequency remained stable which prevented ESP shutdowns, increasing the pump efficiency



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