Operator Realizes 50% Production Increase Using SPIRIT Solid Separator

Dover Artificial Lift recommended the SPIRIT Sand/Solid Separator as the best solution to handle large amounts of sand and coal fines damaging the pump and increasing downtime. The destructive effects of sand, corrosives and other solids severely diminished production and contributed to increased maintenance costs and unnecessary failures.

SPIRIT’s Sand/Solids Separator uses patented, centrifugal motion that captures sand and solids before they can interfere with pump performance. SPIRIT’s Solids Separation technology has proven effective in all artificial lift categories including PCP, ESP and Rod Pump. These solids were captured in the mud joints prior to pump intake reducing wear and tear to the rotor and stator.

Production increased by 150 BPD as well as pump efficiencies which increased by 30%.

**Challenges**
- Low pump efficiency
- Increased costs due to recurring pump failures
- Excessive pump wear due to sand and coal fines
- Decreased production
- Increased Non-Productive Time (NPT)

**Solutions**
- Customer Collaboration to determine best solution
- Dover Artificial Lift team recommended SPIRIT Sand/Solid Separator
- Reduce the amount of solids entering the pump to decrease damage

**Delivering Results**
- Drastically reduced pump failures
- Increased pump efficiency from 60% to 90%+
- Increased Production by 50%
- Captured produced solids before entering the pump
- Filled 3 mud joints of 20-40 mesh solids in 2 months