

WellDog: A truly unconventional resource technology and service company

WellDog is an energy-focused technical services company that provides practical engineering and business solutions in a high-volume, cost effective manner with a remarkable customer focus.

Reservoir characterization

- + Gas testing—Gas content testing in coal, shales and other tight formations
- + Permeability testing—Permeability analytics in coal, shales and other tight formations
- + Lab services—petrography and geochemical analysis

Reservoir monitoring

- + Downhole permanent electronic pressure and temperature sensing—artificial lift optimization and reservoir monitoring, single and multizone
- + Downhole distributed acoustic and temperature fiber optic sensing—frac and production monitoring across the lateral

Carbon services

- + Monitoring, verification and accounting services for carbon sequestration
- + CO2 injection profile and conformance

Artificial lift systems

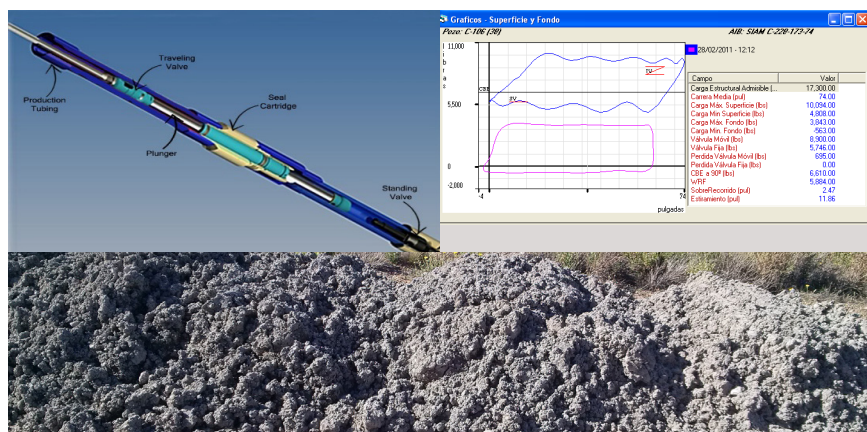
- + High Efficiency Pump
- + Solids management



High Efficiency Pump

Ideal for High Gas and High Solids Environment

High Efficiency Pump (HEP). This new design of a traditional rod pump overcomes the significant challenges from High Gas and High Solids in the produced fluids. And has created a very efficient pump (90% – 95%).



WHAT IS HEP AND HOW DOES IT WORK?

The novel design of the HEP incorporates a seal assembly which permits gas and solids to pass through the pump, unlike conventional rod pumps. The lack of a barrel also permits the HEP to operate at far higher pressures and as the seals are polymetric the pump can be used in more hostile fluid/chemistry conditions.

UNIQUE FEATURES OF THE HEP

- + High efficiency
- + Gas Lock prevented
- + Solids pass through the pump
- + Decreased rod cycles
- + Reduced fluid pound
- + Reduced load
- + Operates at higher pressure
- + Operates in hostile chemical environment



WHY USE HEP?

- + Produce more liquids
- + Hostile fluid/well condition
- + Reduce number of workovers
- + Reduce energy consumption
- + Smaller surface footprint