DOWNHOLE MONITORING SYSTEM:

PROGRESSIVE CAVITY PUMP OPTIMIZATION

PCP

GAS LIFT

SRP

KEY BENEFITS

- Monitors Pump Efficiency
- Prevents Premature Pump Failure
- Increases Run Life of Equipment
- Provides Real-Time Downhole Monitoring
- Mitigates Damage Caused From Dry Pumping

SYSTEM SPECIFICATIONS

PRESSURE RANGE INTAKE/DISCHARGE	**0-16 KPSI**
PRESSURE ACCURACY	**±.01% FS typ.**
PRESSURE RESOLUTION	**±.01 PSI typ.**
MAX TEMPERATURE	**165°C / 330°F**
TEMPERATURE ACCURACY	**±1.0°C**
TEMPERATURE RESOLUTION	**±.01°C**
VIBRATION	**0-18G**
VIBRATION ACCURACY	**±1%**
VIBRATION RESOLUTION	**0.055G**
SAMPLE RATE	**1/10TH SEC.**
TYPICAL DATA CAPACITY	**2 YEARS, SAMPLING EVERY 30 SEC.**
CONTROLLER INTEGRATION	**MODBUS 485, 232, ANALOG & DIGITAL**
INSTALLATION	**ABOVE OR BELOW PUMP**

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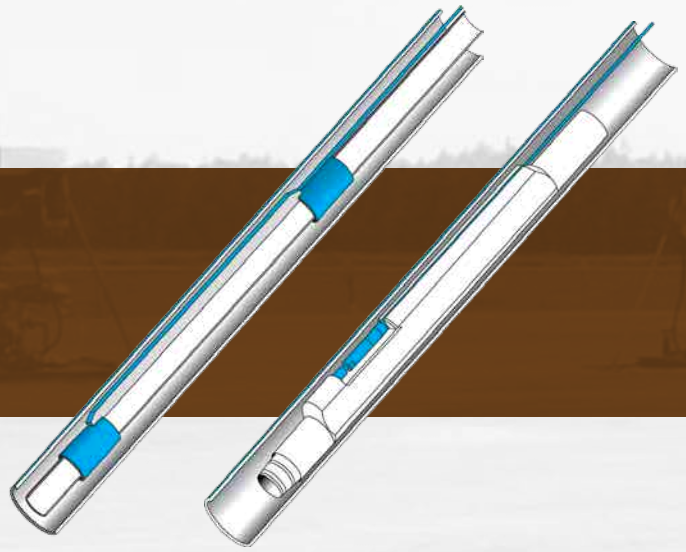
PROBLEMS
FACED IN PCP APPLICATIONS

- Insufficient reservoir pressure drawdown
- Lack of fluid into pump causing PCP to run dry
- Premature equipment failure

SOLUTION
PUMP INTAKE PSI + VSD OPTIMIZATION = CRUISE CONTROL

- ✓ Monitoring downhole pressure data can be used to increase pump speed to keep reservoir pressure down to allow for optimal production
- ✓ Installing a downhole gauge gives the ability to monitor reservoir fluid level and prevent damage to the downhole equipment caused from dry pumping
- ✓ Gauge parameters can be used to monitor pump efficiency and to act as an early warning system to prevent premature equipment failure.



RESULTS
IMPROVING ECONOMICS BY EMPOWERING OPTIMIZATION

↑ RUNTIME ↑ PRODUCTION ↓ COSTS

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