Pump Jack with Engine as Prime Mover Lift Systems Functions & Features

Field Sensors & Interface
Configuration 1: Load Cell + Inclinometer
Configuration 2: Load Cell + Inclinometer + Engine Control Module
- Pump fill monitor and Pump Off Control (POC)
- Pumping unit, rod string and down hole pump models
- Engine sequencing and control (optional)
- Gear box torque monitor
- Tubing, casing, fluid and reservoir models
- Rod string weight and resonance calculator
- Density and flow loss calculation from fluid and gas property
- Deviated well compensation
- Counter balance compensation
- Auto rod friction modeling option for more reliable pump fill calculation
- Pump flow monitor and production accumulator
- Casing and tubing pressure compensation
- Pump intake and discharge pressure monitors
- Fluid level monitor
- Down hole pump position, velocity and load monitors
- Rod position and velocity monitors
- Rod load monitor and protection
- Actual surface and pump dynamometer graph generators
- Predicted surface and pump dynamometer graph generators
- Stored surface and pump dynamometer graph generators with SD memory (optional)
- Stored well report with SD memory (optional)
- Time-stamped event, warning and fault logging
- Interface for multichannel analog data logging (optional)
- User-programmable MS Excel spreadsheet report generator software
- Remote Sensors communications via Modbus RTU
- SCADA communications via Modbus RTU
- Bluetooth (BLE) local communications (optional)
- WIFI wireless local communications (optional)
- Unico GMC® support