

Moyno® Oil & Gas Industry Solutions

Moyno Solutions for Custody Transfer and Multiphase Fluid Transfer Applications

Moyno has the field-proven experience and the advanced technology to effectively handle multiphase fluid transfer and lease automatic custody transfer (LACT) applications in the oil and gas industry.

Moyno Pumps for LACT and High Pressure Injection Applications

When you need to transfer ownership of liquid hydrocarbons between a buyer and a seller through an LACT Unit, Moyno® 2000 pumps provide significant performance and cost-saving benefits. Moyno 2000 pumps are less expensive, more reliable and have a smaller footprint than piston and gear pumps –

major benefits when selecting pumps for your LACT Units. Moyno progressing cavity pumps provide low shear operation with a steady non-pulsating flow to accurately transfer hydrocarbons from the LACT meter to the pipeline owner.

In addition, versatile Moyno 2000 pumps are effective in handling high pressure salt water injection as well as high pressure oil pipeline injection applications. The Moyno pump is well recognized for its superior capability in handling abrasive fluids, efficiently providing long service life and a positive return on your investment.



Moyno® 2000 Pumps

- Low shear
- Steady, non-pulsating flow
- Reliable accuracy in transferring to the pipeline
- Smaller footprint and lower costs compared to piston and gear pumps
- Handles abrasive fluids and high pressures

Moyno Tri-Phase Systems for Multiphase Fluid Transfer

When you need to transfer gas, liquids, and solids from the wellsite to the central processing facility, the Moyno Tri-Phase® System is the field-proven pumping solution that provides unmatched performance and quick payback on your capital investment.

The Moyno Tri-Phase System is a patented, engineered multiphase fluid transfer solution that increases oil and gas production on marginal wells and eliminates the need for battery and separation equipment at the well. It efficiently handles multiphase fluids with gas void

fractions to 95% and does not emulsifying the fluids, increasing the efficiency of downstream separation.

The Moyno Tri-Phase System has a smaller footprint, lower noise emissions and higher efficiency than alternative technologies. Its integrated automation control package allows you to efficiently control operation at the wellsite or remotely.



Moyno Tri-Phase® Multiphase Fluid Transfer Systems

- Does not emulsify fluids
- Increases efficiency of downstream separation
- Eliminates need for battery and separation equipment at the well
- Handles gas void fractions to 95%



Well Process Map

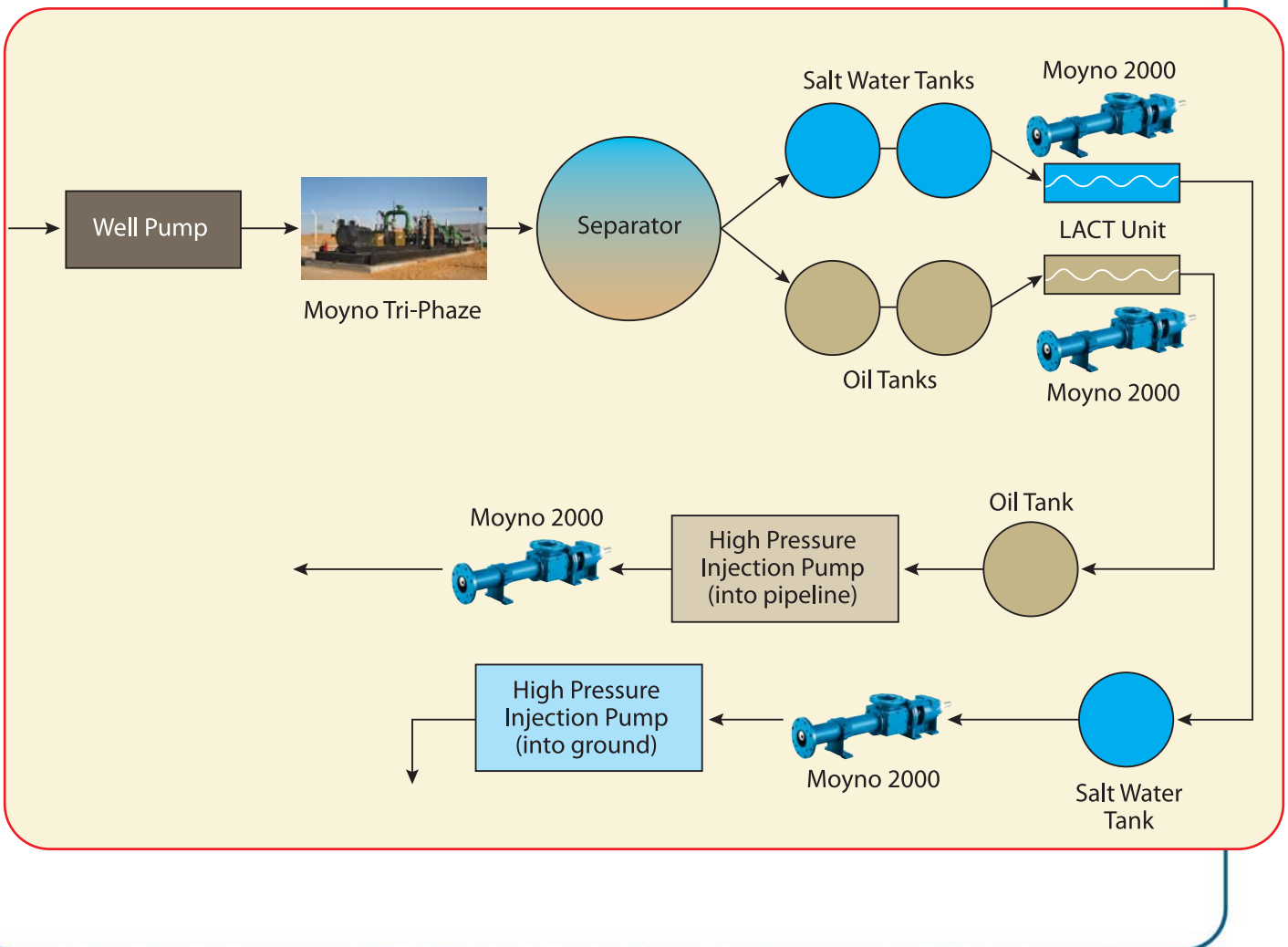
The multiphase fluid consisting of oil, water and gas is discharged from the wellhead pump into the Moyno Tri-Phase System that transfers the multiphase fluid without emulsification to the separator. The separator then separates the multiphase fluid into its three parts, sending the gas to a scrubber and then into a pipeline to the gas plant. If there

is not a large volume of gas, it is typically flared or allowed to discharge into the atmosphere.

After separation, the oil and water are transferred separately into two or three storage tanks. Next, the oil is transferred into a gathering line and pumped into a central set of tanks. These large oil storage tanks can often be receiving oil from as

many as 50 to 100 wellsites. The oil is then pumped into the pipeline injection plant where high pressure Moyno 2000 pumps transfer it through the distribution pipeline.

The salt water is pumped via Moyno 2000 pumps from the LACT unit to large storage tanks. Moyno 2000 pumps are also used to inject the salt water into the ground.



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