

Application story



Crude Oil Transfer (LACT)

Location	USA	Hydra-Cell model	T100ERDGHFEHAY / Q155ERDGHFEHAY
Type of application	Crude Oil Transfer (LACT)	Flow rate	366 L/min (3311 BPD) / 595 L/min (5383 BPD))
Liquid	Crude Oil	Pressure	62 bar (900 psi)
Application details	Hydra-Cell® Pumping Crude Oil - LACT Unit		

A LACT (**L**ease **A**utomatic **C**ustody **T**ransfer unit) system provides for the automatic measurement, sampling, and transfer of oil from an oil lease location into a pipeline. LACT units are sized for a specific throughput of fluid in BPD (Barrels per Day). i.e. 6000 BPD LACT unit.

An oil and gas exploration and production company in New Mexico has chosen Hydra-Cell High Horsepower pumps for use in its LACT systems.

Each LACT unit has two Hydra-Cell pumps, located downstream of a centrifugal pump and a very accurate meter, pumping crude oil into a pipeline at near continuous duty.

The Hydra-Cell pumps were selected in preference to external gear pumps and plunger pumps for their reliability and seal-less, leak proof design. Solids contained in crude oil can severely damage plunger and external gear pumps but pose no problem for Hydra-Cell pumps.

The Hydra-Cell pumps have also proved to be quieter in operation than external gear pumps.

Advantages of Hydra-Cell pump on this application

- Hydra-Cell was chosen for this application for the following reasons:
- Seal-less Design, with the ability to handle this particle laden liquid with ease
 - Known reliability, along with vastly reduced maintenance

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