

The HARP™ - High Angle Reciprocating Pump addresses the critical challenge of producing oil, water and gas in aging and deviated horizontal wells with declining fluid levels.

## Challenge:

An Alberta producer was facing several issues with horizontal oil wells in the Mannville formation (35° API). This included erratic oil and gas production rates, gas-locking in conventional pumps leading to shorter pump life. These factors caused the operator to look for a solution that increased pump life and eliminated the gas-locking and poor efficiencies.

## Solution:

By utilizing a HARP™ - High Angle Reciprocating Pump, the operator achieved stabilized production, better operational run time and longevity. Additionally, with the travelling valve being mechanically opened on every stroke the pump would no longer gas lock. It was decided to replace the conventional insert pump with a HARP™ at same depth to compare results.

The results were immediate post well intervention. Production rates stabilized showing a consistent decline. Pump run life was improved and gas locking was eliminated.

## Result:

HARP™ INSTALL: Hz MANNVILLE PUMPING OIL

