

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:

A Cardium operator struggled to produce their horizontal well. The issues that the operator faced was: Gas-locking, conventional pump failures, and low fluid levels. These issues resulted in a premature well suspension and ultimately, this well was unable to produce in a conventional set up.

### Solution:

The conventional insert pump was replaced with a HARP™ and lowered deeper in the well from 54 to 89 degrees.

The results were immediate:

- The HARP™ was able to pump the well in higher quality fluid at 89 degrees, increasing drawdown from the reservoir.
- There was a significant increase in both the oil and gas production rates.
- Gas-locking was eliminated. Therefore, reducing operator downtime.
- The well has been able to run without a casing compressor unlike the surrounding wells with conventional insert pumps.

### Result:

HARP™ Install: Hz Pembina PUMPING OIL

