

GUARDIAN™ GAS AND SAND SEPARATOR

Outperforms Competitor BHA with 3X Longer Run Life

Endurance Lift Solutions is at the forefront of artificial lift innovation, delivering solutions and service to enhance recoveries and run life.

CHALLENGE

A large Bakken operator had multiple downhole pump failures due to solids in the pump. The operator sought to make a change on the downhole separator to increase reliability and run time.

SOLUTION

As increased runtime was the primary goal for the operator, the Endurance Lift team recommended a 30' **Guardian™ Gas & Sand Separator**—constructed from premium materials, it combines mechanical simplicity with robust construction for dependable operation and redressability. **No other downhole changes were made.**

RESULTS

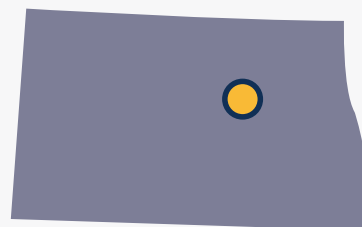
The **Guardian™ Gas and Sand Separator** has increased the system run life from 153 days to 516 days (**237% improvement over the previous centrifugal-style BHA**) and counting.

By combining low-velocity gas venting with high-velocity sand separation, the **Guardian™** has maintained stable production and consistent pump fillage—**confirming effective separation and achieving an impressive step forward in long-term durability.**

PROJECT DESCRIPTION

Location

Bakken Formation



Customer:	Large Bakken Operator	
Lift Type:	Rod Lift / Conventional 912 PU	
Sys.Specifics:	30' Guardian™ BHA	
	Prev. BHA	Guardian™
Run Time:	153 days	516 days (+237%)
Production:	84bfpd / 600mcf	75bfpd / 600mcf
Pump Fillage:	93	91

* The system is still operating at time of publication

Robust Construction with 18+ SQ IN Intake/Vent Windows

- Oversized to vent large gas bubbles

Low Velocity Gas Separation Chamber

- Fluid velocity less than 6" per second

High Velocity Sand Separation Chamber

- Increased velocity to force sand past shroud intake without creating turbulence and emulsion



The Guardian Gas and Sand Separator is a simple solution, utilizing proven techniques, that delivers gas- and sand-free fluid to the pump, boosting efficiency and run life.



Contact your local representative for more information on Rod Lift products and services.