

GUARDIAN™ GAS AND SAND SEPARATOR

Delivers More Than 10X Run Life Improvement

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

CHALLENGE

Recurring solids-related pump failures were limiting run time for a Bakken operator's rod lift well. The operator aimed to strengthen separator performance and improve long-term reliability.

SOLUTION

To address the issue, Endurance Lift recommended a 30' **Guardian™ Gas & Sand Separator**. Built for durability and ease of service, the tool combines rugged construction with efficient separation to deliver consistent performance and redressability—maximizing long-term dependability in harsh well conditions. **No other downhole changes were made.**

RESULTS

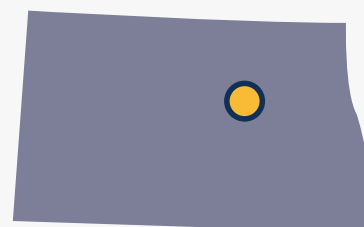
The **Guardian™ Gas & Sand Separator** delivered a more than **10X increase in run life**, extending system performance from 30 days to 318 days.

Even under high-GLR conditions and severe solids, the pump maintained a 92% pump fillage and stable production. Upon retrieval, all three mud joints were full, **validating effective separation and solids handling.**

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:	30 days	318 days (+960%)
Production:	122bfpd / 640mcf	77bfpd / 600mcf
Pump Fillage:	Unknown	92

* 3 of 3 mud joints were full when system was pulled

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.