

# BLAZE® TREATED ESP STAGES

## Surpass Historical Runlife Average By 2X

**BLAZE® stages for ESP systems deliver longer life and more reliable operation, even in the harshest downhole environments.**

### CHALLENGE

A large operator in the Bakken was dealing with below average runtimes for ESP systems brought online due to solids prevalent in the wells. Historical run times for initial ESP installs averaged just 155 days before abrasion from solids would erode pump components and lead to catastrophic failure of the ESP.

### SOLUTION

Endurance Lift introduced the operator to our ESP system with BLAZE® treated stages (impeller/diffuser) to address the problem.

### RESULTS

The operator elected to trial BLAZE® treated stages in two wells. **Both systems surpassed the operator's historical runlife by more than 2X.**

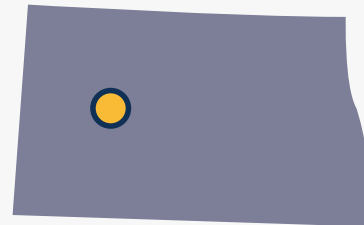


One system achieved a runlife of 315 days and, at time of publication, the other system has reached one year of runlife and continues to perform.

The ESP that failed (GDH) after a 315 runtime underwent full inspection in our North Dakota DIFA facility. **All pumps passed testing and pump stages showed minimal wear.**

### PROJECT DESCRIPTION

**Location**  
Bakken Formation



Customer:	Large Bakken Operator
Lift Type:	ESP / BLAZE 1750 Systems
Historical Average:	155 days
BLAZE Well 1:	315 days
BLAZE Well 2:	365 days (still running)
<b>Improvement:</b>	<b>2X and counting...</b>

### NEW VS 315 DAY RUN COMPARISON



New BLAZE® Impeller & Diffuser.

Well 2 BLAZE® Impeller & Diffuser after bench cleaning.

Well 2 BLAZE® Impeller & Diffuser after sand blasting.



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