

# BLAZE TREATED AR BEARINGS Increases Run Life In Difficult Application

Blaze® AR bearings for ESP applications offer superior abrasion resistance, unmatched corrosion resistance, reduced heat during operations and elimination of fracture failures.

## CHALLENGE

A large operator in the Powder River basin was seeking to increase the run life of an ESP system. The operator was dealing with **short run times** of approximately 35 days.

Gas slugging conditions leading to low or no flow fluid rates contributed to extreme downhole **heat** and **thermal shocking of Tungsten Carbide (TC) bearings, resulting in fracture failures** and catastrophic damage to surrounding downhole components.

## SOLUTION

BLAZE AR bearings were introduced as an alternative to TC and selected by the operator for a trial. No other changes were made.

## RESULTS

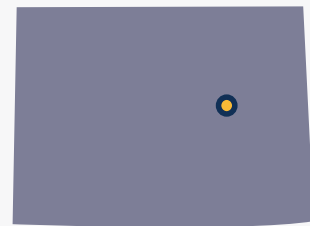
By utilizing **BLAZE AR bearings**, the current ESP system surpassed the prior 3 installations by more than 5X.



Contact your local representative for more information on Blaze products or our treatment as a service (TAAS).

## PROJECT DESCRIPTION

**Locations**  
Powder River Basin



<b>Customer:</b>	Large Independent
<b>Lift Type:</b>	ESP
<b>Initial ESP Run:</b>	183 Days
<b>2nd ESP Run:</b>	30 Days
<b>3rd ESP Run:</b>	64 Days
<b>4th ESP Run:</b>	12 Days
<b>Current BLAZE ESP Run:</b>	207 Days
<b>Avg Run Time Increase:</b>	5X



Top Left: Broken TC bearing from top pump. Bottom Left: Damaged stage in top pump. Right: Cut shaft.