

# BLAZE TREATED CONTROL VALVE ACHIEVES 78X RUN-LIFE INCREASE

Mechanical wear, corrosion and abrasion are common production challenges encountered by operators utilizing plunger lift systems. In the face of these challenges, the Blaze® metal treatment process is dramatically enhancing the longevity of equipment.

## CHALLENGE

A large Permian Basin pure-play E&P was facing challenges with high solid and sand content in the fluid stream of a well produced by ESP, causing their back pressure relief valve (BPRV) to fail approximately every 7 days.

## SOLUTION

The operator requested that Endurance treat a BPRV with our Blaze metal treatment process. A 316SS Tee was Blaze treated and introduced for trial.

## RESULTS

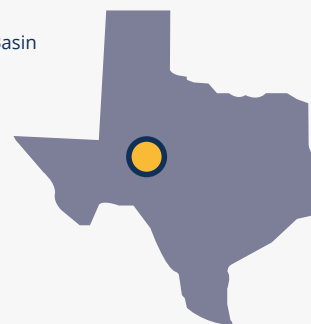
The Blaze treated BPRV has extended component run-life to 543 days. As of publication, the Blaze treated BPRV continues to perform.



- **January 2, 2020:** Operator installed Blaze treated BPRV.
- **February 21, 2020:** 51 days of run life. Component was inspected and in great shape; re-installed. 37,700bbls of oil and 122,500bbls water produced to date.
- **July 28, 2020:** 209 days of run life. Component was inspected and in very good condition; re-installed. 272,000bbls of oil, 435,000bbls of water and 196,000Mcf produced to date.
- **December 4, 2020:** 337 days of run life. The cage (pictured) was damaged due to offset frac. The component was inspected and still in good condition; re-installed.
- **June 28, 2021:** The well was sold in an acquisition but the new operator informed us that the Blaze treated BPRV is still running.

## PROJECT DESCRIPTION

Location  
Permian Basin



|             |                        |
|-------------|------------------------|
| Customer:   | Large Operator         |
| Lift Type:  | ESP                    |
| Pre-Blaze:  | Approx. 7 Day Run Life |
| Post-Blaze: | 543 Days and Counting  |



Left: Blaze treated Tee after December 2020 inspection.  
Right: Damaged cage during December 2020 offset frac.



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