

# SCALEGUARD technology outperforms all other scale preventative measures in the Permian

Separators kept scale-free in well on production for over two years

## Permian, Texas

### The challenge

Large amounts of produced water volumes with scaling tendencies form scale in all parts of the well; from the perforations to the separator topside. These restrictions, reduce oil production, cause pump failure, and require solids removal from the separator on a regular basis. Because of this, the operator looked to trial several scale preventative options to choose the best.

### The solution

CARBO was involved in a head to head comparison of several scale preventative measures being looked at against SCALEGUARD proppant-delivered scale-inhibiting technology. During the second month of the trial, the operator had purchased some existing wells where a similar study had been done. The operator then observed the interior of the separators from several of these wells. Two of the separators were free of scale. The two clean separators were the ones from the wells protected with SCALEGUARD technology that had been on production for two years.

Additionally, the operator saw the continued elution of scale inhibiting chemistry from SCALEGUARD technology where other products treatment rates continued to decline and could not sustain adequate treatment.

### The results

The operator has chosen SCALEGUARD technology as the preventative scale treatment to be implemented in all new wells throughout the field. The product has been pumped on a large scale in over 20 wells and continues to be used. The wells pumped with SCALEGUARD technology continues to show no signs of scale deposits. Residual analysis shows there is adequate scale inhibitor returning to surface to treat for scale.

### Well Data

Location: West Texas

Operator: Large independent

Formation: Avalon Shale

Well Type: Oil

No. of stages: 40 per well

Produced water volume: 295,000bbl

Proppant: 100 mesh and 40/70



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