

VEROS SYSTEMS

VEROS FORESIGHT CASE STUDY

CHAPARRAL ENERGY

The Oklahoma City based independent has proven reserves of over 150 million barrels of crude oil equivalent and interests in over 3,000 producing wells. It operates primarily in mature oil and gas fields in Oklahoma, Kansas and the Permian Basin.

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Challenge

After spending millions on an enhanced oil recovery (EOR) infrastructure, including CO₂, compressors, pipelines, injection wellheads, and fluid separators, Chaparral began to see its long-term investment pay off as oil production increased. However, when a CO₂ compressor fails, CO₂ volumes to the pipeline plummet by 50% or more. The operator needed predictive intelligence to prevent such an event.

Solution

Chaparral selected Veros ForeSight to provide an industrial asset monitoring solution. The project team selected twelve compressors and one pump to monitor in the Liberal, Kansas CO₂ compression facility.

Results

Soon after going live, Veros ForeSight began detecting mechanical problems in three compressors. This enabled Chaparral's highly trained operators to focus their limited resources on these specific assets. In addition, the system indicated all was well with other units despite concurrent warnings from a routine, spot-check vibration analysis. Finally, Veros Foresight detected a fault on a 1,500 hp motor that allowed Chaparral to perform the repair during a scheduled shutdown.



Testimonial

“Veros ForeSight can identify problems before they pose catastrophic threats. In one case, we trusted ForeSight’s indicators that all was well, despite repeated warnings from monthly vibration checks. Using real-time information from ForeSight, we reallocated our compression loads among multiple machines in each of two stages. As a result the “questionable” machine was running well 18 months later. This resulted in savings of over \$100,000 by avoiding unnecessary repairs.”

John Warne

EOR Facilities Engineer



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ForeSight

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