

A large, tan-colored industrial unit, the Oxygen Sentinel, is the central focus of the cover. It is a vertical cylinder with a circular access panel on the left side and several smaller ports on the right. The unit is mounted on a concrete base in an outdoor industrial setting with a blue sky and some vegetation in the background. The unit is framed by a large, stylized circular graphic composed of overlapping orange, red, and grey segments.

OXYGEN SENTINEL™

CASE STUDY

Forty Acres Energy II

SOLVING OXYGEN CHALLENGES
IN SOUR GAS TAKEAWAY

October 2025

THE SITUATION

EcoVapor partnered with Permian Basin oil and gas producer, FAE II, LLC (“Forty Acres”), to address oxygen intrusion challenges in their sour gas takeaway for pipeline operations. Forty Acres faced oxygen contamination in their pipelines, which accept sour gas for a nominal fee, limiting their ability to sell gas and requiring costly sulfur treatment beyond necessity.

THE SOLUTION

EcoVapor’s solution, the Oxygen Sentinel™, is a passive, solid-media-based technology that removes trace oxygen from sour gas streams utilizing the naturally present sulfur. This innovative approach allows Forty Acres to meet pipeline specifications efficiently, avoiding unnecessary gas well shut-ins and lost revenue.

The Oxygen Sentinel™ operates without requiring external heat or pressure, further reducing costs and eliminating emissions associated with other oxygen removal methods. The Oxygen Sentinel™ does not impact the gas purchaser’s plant processing equipment, as seen when using other methods of Oxygen removal (liquid O₂ scavengers). The system’s performance can be monitored via EcoVapor’s upcoming Sulfur Scout™ and integrated into existing SCADA systems or monitored by field technicians.

THE RESULTS

Implementing the Oxygen Sentinels™ at multiple locations has enabled Forty Acres to quickly (under an hour) bring back on ~1.2 MMSCFD associated with previously shut-in gas wells. Resulting in immediate revenue generation and improved profitability.

ABOUT ECOVAPOR

EcoVapor Recovery Systems, a DNOW Company, provides solutions to pressing oil and natural gas production problems. EcoVapor’s technical team has extensive expertise in vapor recovery processes, and includes world-class engineers with an innovative approach to industry challenges.

Our patented Oxygen Sentinel solution helps oil and gas producers meet pipeline specs and maximize production. EcoVapor is headquartered in Denver, Colorado and has field locations in Greeley, Colorado and Midland, Texas.

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Contact us today at
1-844-NO-FLARE (844-663-5273)
to see if Oxygen Sentinel is right
for your oil & gas operation.