



ZERO₂



CASE STUDY

MIDCONTINENT – CAPTURING TANK VAPOR GAS
TO GENERATE PROFITS AND PUT OUT THE FLARE

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www.ECOVAPORRS.com

SITUATION

A leading E&P operator in the Mid-Continent region was flaring more than expected at one of its production pads, resulting in lost gas sales revenue and complaints from nearby residents. As more wells were added to the multi-well pad, oil production from the Woodford Shale increased and resulted in greater flaring activity. The operator sought a solution to minimize flaring so it could continue development without adversely affecting the community or impairing economic returns.

SOLUTION

While the operator's original production pad design utilized a vapor recovery tower (VRT) to minimize the need to flare, EcoVapor suggested a different solution: Capture the entire vapor stream directly from the surface storage tanks and avoid flaring completely.

The operator chose EcoVapor's ZerO₂ solution, because of its simplicity of operation, reliability, ability to generate incremental profits from selling Btu-rich tank vapor gas instead of burning it, and other operational benefits. Initially, one EcoVapor E300 unit with nameplate processing capacity of 300 MSCF/Day was installed on the wellsite.

RESULTS

The ZerO₂ solution delivered the following results for the operator:

- **Increased sales.** A 60% increase in flash vapor sold, based on measurements taken before and after commissioning the ZerO₂ and bypassing the VRT. The increased gas volume eventually required the addition of a second ZerO₂ E300 unit.
- **More profits.** The incremental revenue generated by the ZerO₂ more than offset the minimal operating costs.
- **Short payout.** Payout on the purchase was less than six months.
- **Reduced flaring.** Flaring activity on the pad has declined significantly. The flare remains ready for emergency situations and complaints from nearby residents are no longer an issue.

This situation demonstrates that VRTs are often marginally efficient in de-gassing and capturing flash vapors from produced crude oil. In this example, the data implies a VRT efficiency of less than 65%. There are a number of reasons for this inefficiency, including sizing and inadequate control of vessel pressure, **but one reason common to nearly all production sites is the variable production levels inherent with producing shale wells.** The result is lower than required residence time in the VRT and more flared gas.

ABOUT THE ZERO₂ OXYGEN REMOVAL SYSTEM

The patented ZerO₂ system offers operational flexibility, modularity and reliability. ZerO₂ units are skid mounted and have a small 4'x4' footprint with only one inlet and one outlet, so they can be installed on any production pad. The ZerO₂ is modular, with the ability to run multiple units in parallel to scale-up, or down, as volumes change during the life of a well. With no moving parts, ZerO₂ units are extremely reliable.



ZERO₂

Contact us today at
1-844-NO-FLARE (844-663-5273)
or Info@EcoVaporRS.com to see
if ZerO₂ is right for your opera-
tions and if you're ready to Sell
More, Flare Less.



In Pursuit of the Zero Emissions Wellsite

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