



MV TECHNOLOGIES

V3RU™ Vapor Capture System

Eliminates Incidents of Venting
From Legacy Well Production Tanks

- Enables air emissions compliance for remote, legacy wells
- Cost-effective, turnkey implementation
- Small footprint technology



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V3RU™ Vapor Capture System

A Simple Solution for O&G Field Air Emissions Compliance

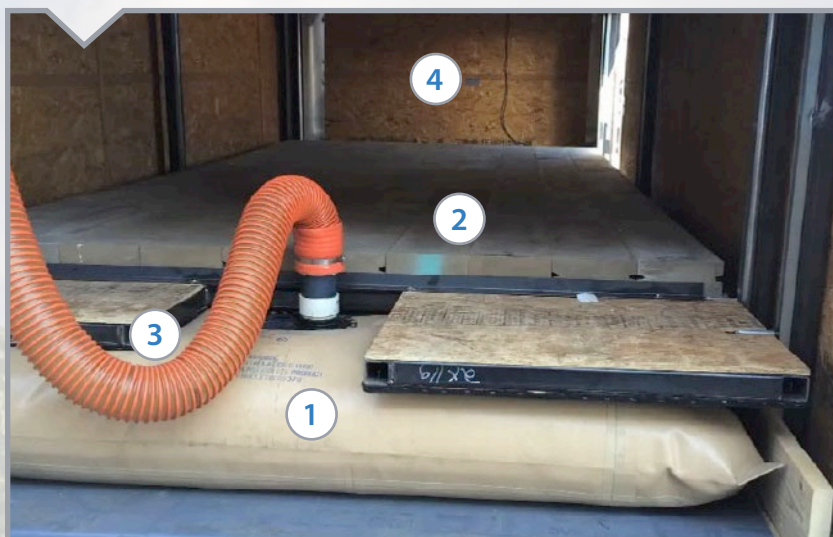
MV Technologies **V3RU™** is a patented vapor capture system engineered to eliminate incidents of venting methane and other VOCs from controlled production storage tanks, associated with smaller legacy oil wells. It is a cost-effective solution that enables well owners and operators to comply with the EPA's Quad O* rule and increasingly stringent State and Local emissions regulations, such as Colorado's Regulation 7:

- 'no venting' standard for most storage tanks;
- maintains combustion device destruction efficiency; and
- monitoring requirements (via optional sensor package.)

Vapor Capture Process & Design

The **V3RU™** captures a large volume of the vapor generated during well cycling, thereby significantly reducing pressure in the production storage tank below the venting threshold. The system also enables the combustion device to operate within specification, ensuring maximum VOC destruction.

The heart of the **V3RU™** is a variable volume accumulator that stores the excess vapor until the well cycle completes and the surge in pressure subsides. The vapor capture device is constructed of a military-grade, fuel-storage membrane and meets rigorous quality standards.



- 1 Variable volume accumulator
- 2 Weighted platform
- 3 Hose to flare pipe
- 4 Custom enclosure

**40CFR Part 60 Subpart OOOO*

The **V3RU™** is simply connected to the line between the production tank and flare.

The low-cost, modular solution to prevent methane and other VOC emissions from remote oil and gas wells

Proven in Challenging Field Applications

The **V3RU™** delivers consistent and reliable results in smaller, remote legacy wells where no other technology can operate, resulting in a highly cost-effective compliance solution.

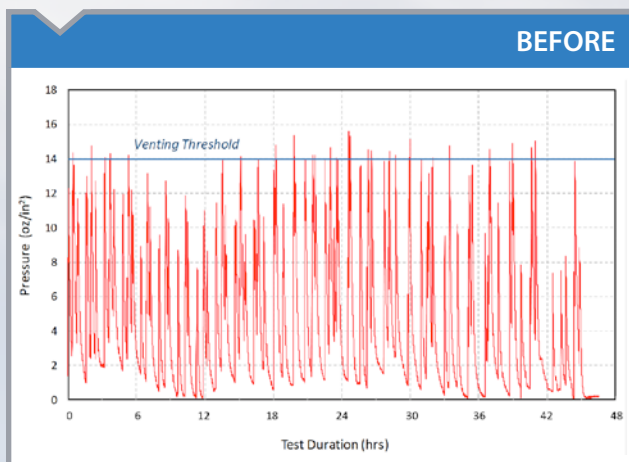


Figure 1

- An extended field test was conducted on a 12bbl/d well site in the D-J Basin.
- The chart shows the pressure in the oil storage tank during normal operation hours.
- Spikes in pressure correspond with the large volume of vapor produced during well cycling.
- When the tank's pressure limit is reached, a vent opens, releasing the vapor into the atmosphere. Figure 1 shows 24 incidents of venting in a 48 hour period.

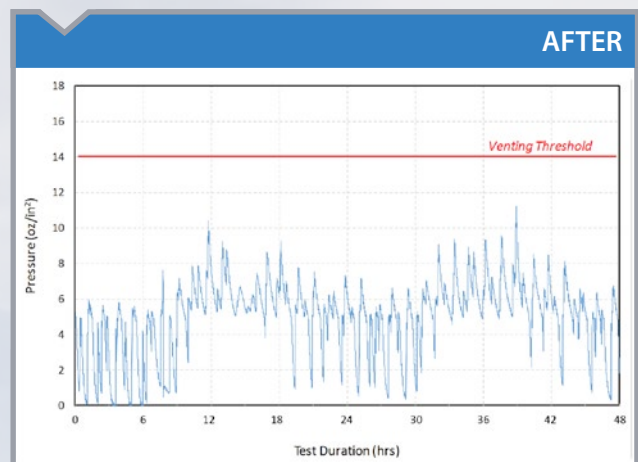


Figure 2

- Once the V3RU™ system is engaged, the peak pressure is significantly lowered.
- The tank's pressure limit is never reached, and the vent remains closed.
- Vent gas emissions are eliminated, a key requirement of new methane emission regulations.
- The lower system pressure may also reduce fugitive gas emissions.

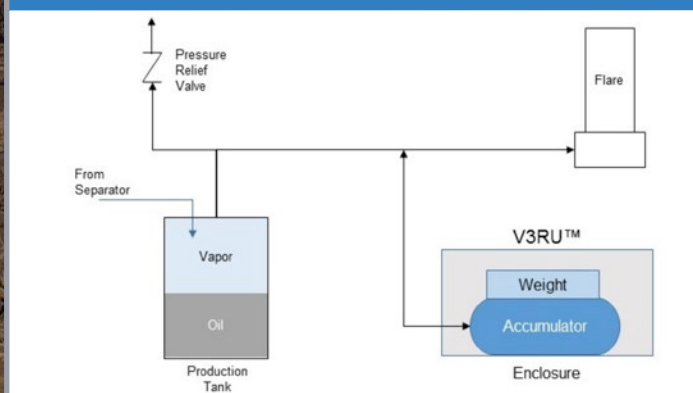
Advantages

- **Enables regulatory compliance** – eliminates venting and facilitates combustion device efficiency
- **Cost-effective solution** – simple design, ideal for wells that cannot afford more costly VRU technology
- **No electricity required** – suitable for remote wells without access to power

The V3RU™ is simply connected to the line between the production tank and flare.

Features

- No moving parts
- No electricity required
- Low operating costs
- Remote monitoring available



About MV Technologies

MV Technologies has more than a decade of experience solving emission and odor control challenges for a variety of process industries that include: oil and gas production, petroleum refining, food and beverage production, and biogas to power conversion from landfill and agricultural sources. MV's solutions are founded on the principles of applying best available technology to the client's site specific conditions in order to deliver the true lowest cost of ownership. To find out more about MV Technologies **H2SPlus™** System, **OdorFilter™** and **V3RU™** vapor capture system, visit www.MVSeer.com. MV Technologies is a wholly owned subsidiary of Strategic Environmental & Energy Resources, Inc. (SEER).

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