



Taming RVP and Improving Purity in the Appalachian Basin

WESTERMAN'S SEPARATION TECHNOLOGY:

DELIVERED a target RVP of **9psi**

REDUCED equipment footprint

MAINTAINED throughput levels

WESTERMAN HELPED AN OPERATOR IN THE APPALACHIAN BASIN BETTER DEAL WITH RVP ISSUES—MAINTAINING A SAFE CONDITION FOR HYDROCARBONS AT ALL TIMES.

These days, safety culture is so engrained into everyday operations that it's easy to get complacent. But this Westerman customer leaves nothing to chance. That's why they approached our team regarding a wellsite in the Appalachian Basin. They wanted good-to-great transformation of the site's RVP performance from a name they could trust.

CHALLENGE

Reid Vapor Pressure (RVP) is a measure of liquid hydrocarbon volatility. Specifically, ASTM D323 – 15a standards state that it's the vapor pressure at 100°F of petroleum products and crude oils with an initial boiling point above 32°F. In this case, the operator wanted to improve the way they managed RVP with the goal of achieving a total value of 9psi.

Prior to engagement with Worthington Industries, the customer had deployed a VRT and line heater setup to manage RVP. But the configuration was not delivering the consistent results the customer wanted. So they approached us to develop a solution to better approach the issue.

SOLUTION

After careful review of the system's inlet specifications and performance requirements, and keeping in mind the operator's RVP objective, our team proposed a Westerman's 4x16 heater treater. This solution replaced a direct fired heater treater and eliminated a VRT—and was able to deliver upon the desired RVP target value.

Our heater treaters feature advanced internals that make better use of the unit's cross-sectional space. Because of this high-performance design, this system delivered the same target throughput while hitting that RVP mark of 9psi, all with a smaller footprint. And, as an added bonus of this unit's performance, the system improved the site's overall NGL recovery.

