

Critter Creek 15 SW Bradenhead Long-Term Combustion PMP:

Following the discovery of a continuous whisper of gas out of the Bradenheads of two BCEI wells at the end of their annual BH tests, BCEI proposes the following long-term pressure management plan:

BCEI plans to set a permanent combustion device on the Critter Creek 15 SW wellpad and route the Bradenheads for the Critter Creek 15-6203D and Critter Creek 15-6104BE to it. BCEI will install check valves upstream of the point where the two Bradenheads are tied together to prevent backfeeding into either Bradenhead. BCEI will install a back pressure regulator downstream of the co-mingle point to regulate the pressure on the Bradenhead and to throttle the volume of gas sent to the combustion device. BCEI will install a flow meter downstream of the back pressure regulator to actively measure the volume of combusted gas for emissions reporting purposes. BCEI will install a knockout vessel in between the co-mingle point and back pressure regulator to avoid sending any liquids to the combustion device. The back pressure regulator set point will be a value derived empirically based on two variables, pressure and flowrate. The set pressure will always be set lower than the 50 psi Bradenhead notification threshold where any lowering of the set pressure will be confined so that resulting emissions do not exceed our allowable limit for the Critter Creek 15 SW pad.

The objective of this PMP is to mitigate the pressure present in the Bradenheads to protect the surface casing shoes, while also minimizing the environmental impact of such mitigation efforts. As there appears to be a level of natural back pressure that stems any communication to the Bradenhead, the goal is to combust only enough gas to keep the Bradenhead pressure at an acceptably safe level while allowing the back pressure to work as a stymie to any communication.