

# **PRACTICAL HYDROCARBON DEW POINT SPECIFICATION FOR NATURAL GAS TRANSMISSION LINES**

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## **ABSTRACT**

Hydrocarbon liquid dropout can cause a number of problems in gas transmission lines, including increased pressure drop, reduced line capacity, and equipment problems such as compressor damage. To avoid liquid dropout, most current operating specifications for gas transmission lines require that the lines be operated above the hydrocarbon dew point (HDP) or cricondentherm hydrocarbon dew point (CHDP). The HDP may be determined either by direct measurement such as the Bureau of Mines chilled mirror method or by calculation using an equation of state (EOS) with a measured composition. This project (GPA Project No. 081) was undertaken to determine a practical hydrocarbon dew point specification allowing small amounts of liquids that have no significant impact on operations. Results from the project show that 0.002 gallons of liquid per thousand standard cubic feet of gas (GPM) has a negligible effect on pressure drop and should not disrupt pipeline operations. Calculation of an accurate HDP from a GC analysis such as typically available at a custody transfer point may be useful but is highly dependent on the characterization of the heavy fraction. An extended analysis of the heavy fraction is best. However, an empirical method has been developed to predict the C6, C7, C8, C9 and heavier composition when only a lumped C6+ fraction characterization is available.

# Practical Hydrocarbon Dew Point Specification For Natural

**Yan Bai**



**Practical Hydrocarbon Dew Point Specification For Natural:**

## Whispering the Techniques of Language: An Emotional Journey through **Practical Hydrocarbon Dew Point Specification For Natural**

In a digitally-driven world where screens reign great and quick interaction drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within words often go unheard. Yet, set within the pages of **Practical Hydrocarbon Dew Point Specification For Natural** a captivating literary treasure blinking with organic thoughts, lies an extraordinary journey waiting to be undertaken. Written by a skilled wordsmith, this wonderful opus attracts readers on an introspective trip, lightly unraveling the veiled truths and profound affect resonating within the very cloth of each word. Within the emotional depths of the moving evaluation, we shall embark upon a sincere exploration of the book's primary subjects, dissect their charming writing model, and fail to the effective resonance it evokes serious within the recesses of readers' hearts.

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