

### عنوان مقاله:

Energy Optimization of the Gachsaran Refinery's Natural Gas Sweetening Unit Using Vapor Recompression Column

## محل انتشار:

سومین کنفرانس بین المللی فناوری های جدید در صنایع نفت، گاز و پتروشیمی (سال: 1400)

تعداد صفحات اصل مقاله: 6

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#### خلاصه مقاله:

Tens of thousands of barrels are sent to the Bandar-e-Emam petrochemical plant every day, and the Gachsaran oil and gas refinery always aims to partially supply the feed for this petrochemicalcomplex by sweetening sour natural gas liquid containing some HYS and COY. Reducing the high energyconsumption of sweetening requires energy optimization. Vapor Recompression Column was used foroptimizing sweetening energy in the Gachsaran gas unit, and the distillation column's top vapor wascompressed to transfer its thermal energy to the bottom. The results show that Vapor RecompressionColumn consumed about Ya% less energy than the conventional process mostly due to .warm and coldutility savings

# کلمات کلیدی:

Sour gas sweetening, Natural gas, Vapor Recompression Column, Energy optimization

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