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ABSTRACT

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An Analytical Investigation of Trintoc's Gas Gathering and Transmission System

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An overview of Trintoc's natural gas gathering and transmission system is presented . Each field is studied as part of the total system .

In this thesis , an analytical method is presented for the optimization of Trintoc's natural gas with relation to its pipelines . Capacity estimates were carried out using the techniques of pressure drop calculations of the network . An analytic method is presented for the Wilson and Barrackpore fields .

The analysis is based on the Flow Equations . It is seen that the Panhandle Formulas are more conservative than the Weymouth's and this fact should be taken into consideration for the design of future projects . These pipelines were laid down over forty ( 40 ) years ago and efficiencies ranged from ten ( 10 ) to eighty ( 80 ) percent with the larger diameter pipelines at the smaller efficiencies .