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Evaluating control designs for co-ordinating pump rates and choke valve during managed pressure drilling operations

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Abstract:
When drilling into a petroleum reservoir it is critical to maintain a required downhole pressure to avoid well bore fracture or influx of petroleum fluids. Drilling into mature and often depleted petroleum fields may be difficult due to tight pressure margins.

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 Contents

Download PDF	I. INTRODUCTION The drilling crew performs operational procedures which may result in disturbances to the downhole pressure. The downhole pressure is critical; the pressure is required to be kept within an upper bound and a lower bound to avoid damages to the wellbore and the formation.	
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