

## PRUITT OPTIMAL CASE STUDY

# MPD Solution: Modular MPD Flexibility

*Two operators: One in Canada, the other one in the USA have utilized the flexibility of Pruitt Optimal MPD Lite <sup>®</sup> Modular system to meet their changing MPD requirements onsite.*

*Pruitt <sup>®</sup> Modular MPD package with Coriolis meter, single choke or dual chokes system and IPRV can be configured onsite to meet the changing needs of our clients. This flexibility leads to cost savings and suitable anytime to the operators MPD requirements.*

*CBHP MPD method can help drill through narrow pressure windows, provide early kick detection, improve ROP, minimize surge and swab issues, help to detect pore-pressure and leak-off pressure dynamically, <sup>®</sup>drilling with casing<sup>®</sup>and cementing.*

**Details:** An Operator in Canada and in the USA used Gen-2 package of Pruitt MPD services and configured the same package to meet their changing well requirements.

1. Both a Canadian and USA based land operators have started off with a full dual automated MPD choke system, complete with IPRV and bypass manifold.
2. During their drilling programs, based on their perceived drilling risk they have customized the MPD system to suit their well knowledge based on the previous operations.
3. The Canadian Operator started operation with a full system. They initially dropped both IPRV<sup>®</sup> and switched from dual chokes to single choke system onsite. After realizing that they had a potential for exceeding the fracture gradient, they settled on using single automated choke, IPRV and bypass.
4. The US Operator started off with a full MPD system as well and based on previous operations data they dropped full MPD system down to a single automated choke with bypass system onsite.

**Challenges/Problems:** Changing formations and unknown regional geology leads to cautions MPD planning.

**Action/Solution:** Flexible MPD Modular system easily can be tailored to a client<sup>®</sup> needs in MPD designing phase or onsite.

**Execution/Results:** Two operators in separate countries (Canada and USA) have now fully utilized the flexibility of Pruitt<sup>®</sup> MPD Lite <sup>®</sup> Modular system, made operational cost savings and time.

## Dual Choke, IPRV & Bypass

