



QDRILL IN: Water-based Drill-in Fluid

KEY BENEFITS

- Designed for drilling the reservoir
- Skin damage is minimized
- Filter cake is easily removable
- Easy to maintain

Drilling through reservoir

QMax's water-based drill-in fluid, QDRILL IN, is applicable for drilling sand and carbonate production zones, horizontal or vertical, with varying rheologies and filtration control properties attainable. The QDRILL IN system is moderately resistant to anhydrite and salt contamination and can be made inhibitive with the addition of a potassium salt or an amine.

The system is used exclusively for drilling through known reservoirs with the intention of minimizing rock damage. Consequently, it is essential to select the right size and amount of calcium carbonate/acid degradable weighing agent to be used. QDRILL IN is a specially-devised system exclusively used for drilling through reservoir, ensuring formation damage is minimized as much as possible.



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QDRILL IN can be effectively used as a replacement for other bridging drill-in fluids (salt saturated polymer system, resin polymer system, cellulosic fiber polymer system). The choice of fluid is dictated by formation damage mechanism.

QDRILL IN		
Property	Range	Min / Max recommended
Mud Weight, ppg (kg/m ³)	8.7 - 9.2 (1040 - 1100)	< 9.6 (< 1150)
Plastic Viscosity, cP	15 - 35	< 40
Yield Point, lb/100ft ² (Pa)	12 - 30 (6 - 15)	< 50 (< 25)
Gels, lb/100ft ² (Pa) 10"/10'	3 - 10 / 16 - 25 (2 - 5 / 8 - 13)	As required
pH	9.0 - 10.0	< 10.5
Calcium, mg/L	40 - 200	< 200
MBT, ppb-eq (kg/m ³)	0 - 5, 0 - 14	< 10 (< 30)
API Fluid Loss, cc/30min	4 - 8	< 8

We Deliver, No Excuses