

Background

During temporary suspension of a new well, a liner lap started to leak. The well was filled with 1.04-sg [8.66-lbm/galUS] fluid. A 1.74-sg [14.5-lbm/galUS] oil-based drilling fluid failed to kill the well. A pressure buildup test estimated a 2.45-sg [20.4-lbm/galUS] fluid would be required to control the leak.

It was determined that WARP OB CONCENTRATE* concentrated colloidal suspension technology could be weighted with MicroBar* micronized weighting additive to 2.6-sg [21.66-lbm/galUS] density and remain a workable field-applicable fluid.

The well was displaced with 2.3-sg [19.16-lbm/galUS] WARP OB CONCENTRATE technology. This initial displacement killed the well and was confirmed with a flow check. The well remained stable, and no further density adjustments were needed.

Technologies

- WARP OB CONCENTRATE concentrated colloidal suspension technology
- MicroBar micronized weighting additive

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WARP OB CONCENTRATE Technology Controls Liner Lap Leak

Difficult displacement performed under specific rig site conditions;
well remained stable



The well was displaced to 2.3 sg. The well held stable, and no additional weight adjustments were necessary to seal the leak.