

Why use Synthetic Base Fluid?

Haynesville Field Results: Downhole Performance = Time & Money Saved

Case 1: Operator A drilled their first two wells using synthetic base fluid in NW Louisiana in 16.7 and 18.8 days, respectively, versus their in-basin average of 26-28 days. This operator estimated a cost savings per well of \$1.6M due to the time saved, most of which they attributed to switching from OBM to SBM. It's also worth noting that they drilled with a previously-used mud system that had already drilled seven wells, this was not a brand new mud system. This operator also plans to dispose of drill cuttings on-site, further saving on costs (est. >\$100k/well).

Case 2: Operator B drilled one well with a brand new OBM system and two wells with a brand new SBM system. The diesel OBM had an ROP of 95ft/hr in the lateral while the SBM laterals averaged an ROP of 106ft/hr (+11.6%). The OBM mud bill was \$16.55/ft while the SBM mud bills averaged \$13.56/ft (18.2% savings). For a 10,000ft lateral baseline on a rig with a spread rate of \$100k/day, this represents a cost-savings of \$46k on drilling time saved and \$30k on mud cost, a total of \$76k saved per well, not including savings from on-site disposal.

Case 3: Operator C, who drills in HTHP shale close to 400F, drilled their first three SBM wells with an average mud cost of \$38.5/ft versus their in-basin average of \$40.2/ft with diesel OBM (4.4% savings). Their ROP in the production interval with SBM was 24.2ft/hr versus 16.7ft/hr with OBM (+44.9%). For the same 10,000ft lateral average and \$100k/day spread rate, that's a time savings of 7.8 days (\$773k), not including cost savings on cheaper mud, cuttings disposal, or ESG benefits.

 \$1.6-2M

Cost savings per well on same pad
(Haynesville operator)

 7-9 days

Maximum time-on-well savings
seen in the field
(Haynesville operator)