

South Texas operator reduces dilution by 35% and decreases days on well by switching to the Hyperpool® Conversion Kit

- Dilution cost savings of \$51,000 per well
- Annual dilution savings projection of \$1.8M for 36 well program
- Drilling time per production interval decreased 21%

Situation

A new player in the South Texas Eagle Ford shale formation initiated a one-rig drilling campaign in 2019. The drilling program called for production intervals just under 13,000 feet on average. Production interval drilled with an 8-3/4" bit and 10.5-13.0 PPG oil-based (diesel) mud.

Challenge

The operator is focused on developing and producing US unconventional resources, leveraging technology to maximize value. Accordingly, the operator contracted a high-specification land rig from an industry leading contractor. However, they suspected bypass at the rig's primary shakers was leading to unnecessary drilling fluid dilution (new mud built while drilling) and higher operational costs than expected.

Solution

The operator chose the Derrick® Hyperpool® Conversion Kit to replace the rig-owned NOV® BRANDT™ KING COBRA™ HYBRID shakers. The installation was completed during a rig move after the first pad of three wells was drilled. After completing two more pads, totaling seven wells, the operator looked to Derrick to quantify the cost savings. Leveraging Derrick proprietary software and data analytics, the operator was able to accurately quantify the cost savings.

"We are happy we made the transition to Hyperpool technology and we saw an immediate return on our investment"

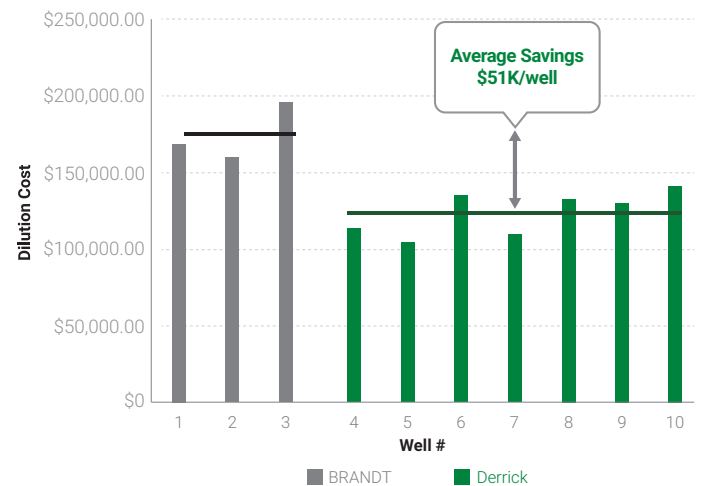
–Drilling Engineer (responsible for all wells)

"Changing to Hyperpools lets me sleep better at night."

– Mud Engineer (on location for all wells)

Results

1. Reduction in cost for dilution (new mud built while drilling) per well:



2. Production intervals of comparable footage drilled with Derrick shakers took 30 fewer hours on average to reach TD:

	Footage Per Interval	Hours Per Interval	Footage per Hour (Calculated ROP)
BRANDT Wells	12759	147	87
	13036	129	101
	13082	140	93
BRANDT Average	12959	139	94
Derrick Wells	12494	134	93
	12819	95	135
	13210	97	136
	12488	89	140
	12071	95	127
	13214	118	112
	12668	136	93
Derrick Average	12709	109	120

For more information, please contact your local Derrick sales representative.

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