

# COMPREHENSIVE SOLUTION INCREASES ROP WHILE DRILLING AND MAXIMIZES FOOTAGE TO BOOST PRODUCTION

Proven Reliability Gives Major Operator Confidence to Increase Build Rate

## Challenge

A major oil and gas operator was interested in implementing technology and automation solutions for their Eagle Ford operations. Specifically, the customer was looking to land more curves in the zone, increase the rate of penetration (ROP) and maximize the hydrocarbon extraction on each well.

## Solution

The operator utilized H&P's super spec rig fleet, and added a custom package of technologies to add increased value to their operations.

Helmerich & Payne offers software applications that layer on top of the FlexRig® fleet drilling control system and provide machine/human collaboration during the drilling process to improve efficiency. In this case, the operator used one such technology called FlexOscillator®. This rig control software automates drillstring rotation, reduces drag, and decreases costly incidents of stuck pipe.

In addition to FlexOscillator technology, the customer also used H&P's Bit Guidance System to steer the bit in real time. The Bit Guidance System uses task automation, forward modeling and automated decision-making to guide the driller for more accurate positioning of the bit while drilling horizontal wells. The technology helps improve overall operating economics by lowering well construction costs, reducing future lifting costs, and increasing hydrocarbon production potential.

AutoSlide® Technology works together with the Bit Guidance System, receiving sliding instruction to automatically optimize parameters to hold toolface.



## PROJECT OVERVIEW

### Location

Seguin, Eagle Ford Shale Play, South Texas

### Outcomes

- Increase Reservoir Contact
  - Consistently Land Curves in Target Formation
- Reduce Time to Target
  - Increase Rotating ROP
- Increase Production
  - Maximize Frac Stages by Landing Curve at Target Formation
- Reduce Human Variability
  - Demanning Rig Operations

### Technology & Services

- FlexOscillator® Technology
- Bit Guidance System
- AutoSlide® Technology

Are you looking to achieve a similar outcome?

[Contact us today.](#)



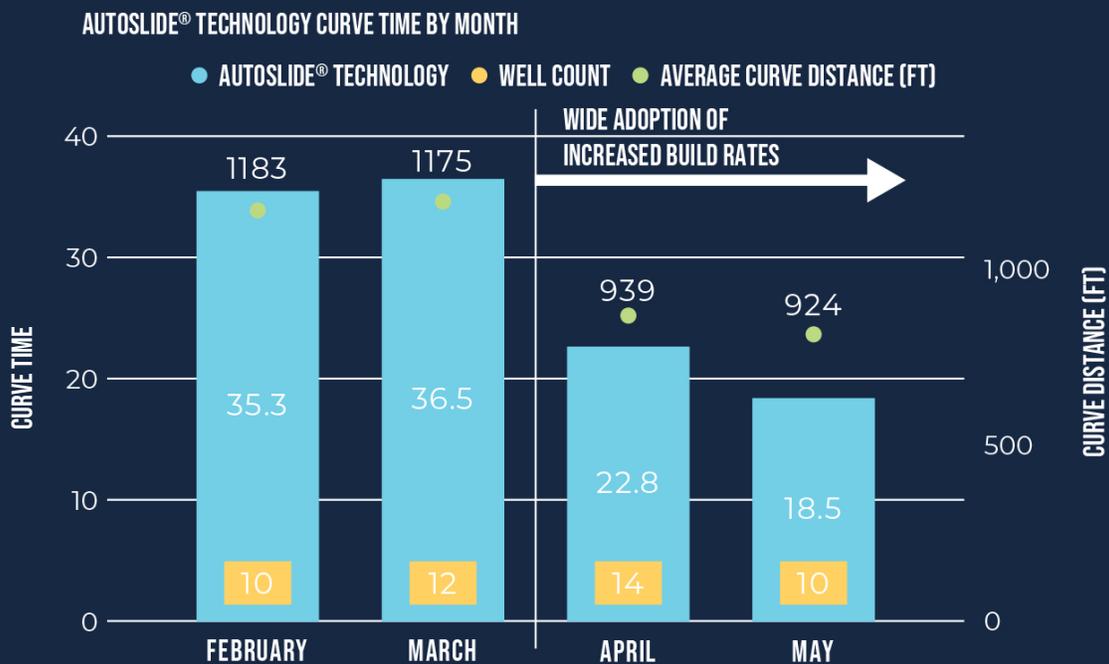
## Outcomes

The combination of rigs and technologies allowed the customer to achieve remarkable results in their Eagle Ford operations.

The reliability of AutoSlide technology drove the operator to change their plan build rates from 8 degrees to 10 degrees, which allowed for a faster curve time, with an increase in ROP.

The operator was so impressed by the results that they are trialing 11 degree build rates, and are ultimately aiming for 12 degree build rates, potentially increasing those benefits.

Because this comprehensive solution allows for the de-manning of directional drillers from location, the operator also saw cost and HSE benefits by reducing personnel onsite.



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