BLACK MAMBA ROD LIFT

REPORT 26.1

60MM+ REVS - BLACK MAMBA PROVIDES AT EVERY TURN

THE 360 HELICAL DESIGN GUIDES PERFORM FLAWLESSLY IN THIS PCP WELL

This was a first-time installation of a Black Mamba system in a PCP well, with performance that immediately exceeded expectations. From startup, the system delivered exceptional stability, reduced friction, and consistent load behavior across the full stroke. The results were operationally significant, demonstrating a clear improvement in reliability and overall efficiency compared to prior configurations.

CHALLENGE

The operator is managing shallow, highly deviated wells with strong oil production potential, where maintaining reliability has historically been a challenge. To address this, they transitioned from conventional reciprocating rod lift to progressive cavity pumping. **Black Mamba was deployed to protect the rod string throughout the system, enabling consistent performance in a demanding well profile.**

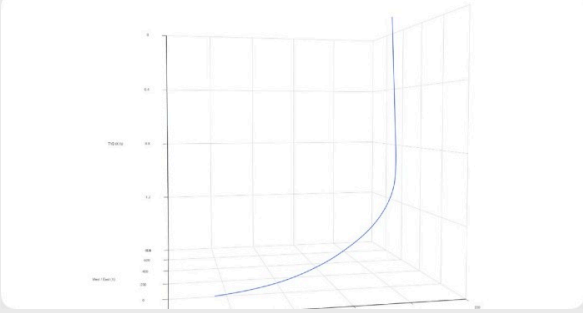
SOLUTION

End-to-end rod control was achieved using Black Mamba's 7-per configuration, delivering near-perfect centralization and protection along the entire string. With a **coefficient of friction of 0.06**, combined with **industry-leading erodible wear volume (EWV) and bearing surface area**, the system provides a highly durable solution in challenging wellbores. The 7-per Black Mamba guides on a 1" × 3/4" pin sinker rod configuration performed reliably in the PCP string design.

RESULTS

Validated using Black Mamba's guide measurement tools, the wear-resistant, low-friction polyketone material—**molded in a true 360° helical profile while also minimizing flow turbulence**—has exceeded performance expectations for this operator. In a wellbore that has historically presented significant challenges due to high deviation, the system's centralization capability delivered consistent, repeatable results. **All Black Mamba rods are being re-run and based on this performance the operator is expanding widespread deployment of PCP designs utilizing Black Mamba in the coming months.**

PROJECT DESCRIPTION

LOCATION:
Illinois

CUSTOMER TYPE:	Private, Small Operator
PRODUCTION:	700 bopd
INSTALL DATE:	July 2025
CURRENT DATE:	April 2026
RUN TIME:	9 months