REPORT 23.3

BLACK MAMBA GOES WORLDWIDE - INDONESIA SUCKER ROD PUMPING

A REGIONAL MAJOR LEANS ON BLACK MAMBA FOR MUCH NEEDED RELIABILITY

CHALLENGE

A major Indonesian operator was experiencing numerous mechanical failures in a particular shallow well (#178) equipped with a sucker rod pump. The failures were mainly due to continuous contact between the rods and the tubing. The well is vertical with a pump depth at less than 300m (1000 ft) deep but appeared to have some unexpected dog legs. This resulted in rod failures, tubing leaks and excessive strain on the pumping equipment.

Well #178 averaged a Mean Time to Failure (MTF) of 195 days (6.5 months). The well experienced a total of eight (8) failures from February 2020 to November 2022. Production for well #178 consistently produced over 400 BFPD with a 98-99% water cut (net oil production of ~3 BOPD) before the Black Mamba installation.

SOLUTION

Black Mamba recommended their ***Complete Rod Control*** system through 7/8" API sucker rods. ***Complete Rod Control*** is achieved through BMRL's 7-guides-per-rod configuration. When CRC is used from top to bottom throughout the rod string, it allows the operator to pump the well with absolute certainty, preventing all metal-to-metal contact between the rods and the tubing. Additionally, ***Complete Rod Control*** prevents sucker rod buckling if compression in the rod string exists.

The 7/8" sucker rod string with 7-per Black Mamba guides was installed in well #178 in January 2023.

RESULTS

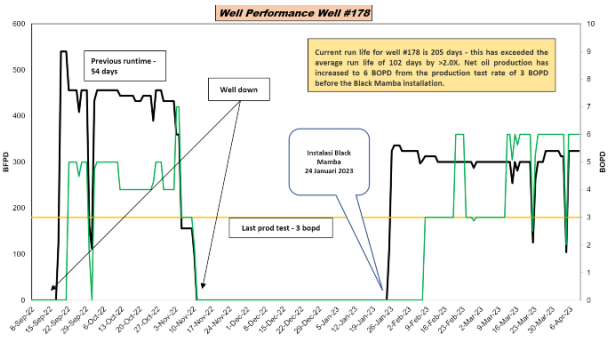
The operator elected to set the pump back at the same depth during the trial phase to evaluate Black Mamba performance. **Well #178 has now been running for over 1,070 days** (>**8.92*X MTF/normal runtime***). Current production is ~6 BOPD up from the reported production test of 3 BOPD. The water cut has remained at 98-99%. The operator has increased the surface pumping unit with reliability. At the pump speed of 5 SPM, the fluid level above the pump has been very steady.

The well continues to exceed expectations (both MTF and production). **Now that Black Mamba has been proven successful, the operator is evaluating four additional wells for Black Mamba to design and implement their products and philosophy.**

PROJECT DESCRIPTION

LOCATION:
Indonesia

CUSTOMER TYPE:	Regional Major
PRODUCTION:	400 BFPD
INSTALL DATE:	May 2022
CURRENT DATE:	April 2025
RUN TIME:	1,100+



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