

Leucipa delivers operational efficiency and ROI for ExxonMobil through ESP failure prediction

CHALLENGES

- ExxonMobil sought to manage ESP production for unconventional wells in the Delaware Basin
- Inability to identify presence of gas and solids interference early enough to act
- Inconsistent application of recovery actions to improve pump performance after critical conditions were identified
- Failure of general data pipeline structure and data QA/QC capabilities broke down with more advanced analytic requirements

SOLUTION

Baker Hughes deployed the [Leucipa™ automated field production solution](#) for a 157-well pilot to:

- Identify key critical conditions in the pump, like gas interference and solids before pumps were permanently damaged
- Make automatic recommendations to control the most critical conditions present
- Allow for prioritization of intervention, keep attention on those pumps with declining run life based on quantified remaining useful life calculations

RESULTS

\$1.8M+

in improved run life & workover savings

80%

reduction in failures since Q3 2024

10x

ROI for initial pilot phase