LEADERSHIP IN THE PERMIAN AND BEYOND

One of the leading producers of unconventional assets in North America, Oxy is a top producer in both the Permian and DJ Basins, as well as an industry champion for continual optimization through applied technology and value-added processes. All while continually maintaining superior cost discipline and ESG performance.
Leadership by the Numbers
The Permian Basin in West Texas and southeastern New Mexico is on track to outpace the combined oil production of both Norway and Brazil. Oxy is one of the region’s largest acreage holders, with 2.8 million net acres. The company owns around 40 percent of the top 100 wells in the Permian's Delaware Basin measured by the initial six months of production—almost twice as many as the company’s nearest competitor in the region.

Advanced Fracture Design
Optimizing stimulated rock volume through customized well designs is key to maximizing returns on unconventional assets. Oxy is in the vanguard of understanding hydraulic fracturing in shale reservoirs through advanced research efforts with academic institutions, industrial consortia and private partnerships. Our research results in best practices and technologies that can be applied for significant production enhancement at scale. The company has even developed its own proprietary fracture modeling and analysis software that helps improve recovery and economic performance.

Data-Driven Development
How these wells are developed makes a big impact on economic performance. Oxy has created in-house predictive models for each unconventional basin in which it builds optimal development strategies. Applying tools such as machine learning, multivariate analysis and even a proprietary Field Development Optimization tool, hundreds of factors such as rock properties, lateral length, completion design and more can be modeled for clear pathways to maximum value.

Real-Time Optimization
Oxy’s Integrated Optimization Centers use remote monitoring and automation to allow engineering and operational teams to fine-tune performance of these unconventional assets. Advanced analytics, telemetry and centralized systems—fueled by millions of data points—identify and address issues early and streamline workflows. The result? Less downtime, lower capital intensity and operating costs, faster time to market and less environmental impact.

State-of-the-Industry Testing
Oxy operates the U.S. Department of Energy Hydraulic Fracture Test Sites (HFTS) 1 and 2. These field-based, collaborative research project areas execute multiple experiments with the aim of optimizing completion design and quantifying the environmental impact of hydraulic fracturing practices. These two test sites, located in the Permian’s Midland Basin and Wolfcamp formation, are going a long way toward enabling the industry to better predict fracture characteristics such as geometry, extent, depletion and a host of other variables and outcomes.

Applied Thought Leadership
Oxy is home to some of the industry’s leading unconventional resource development experts. These include widely published thought leaders and accomplished unconventional specialists in the fields of geology, petrophysics, technology and numerous engineering disciplines. Worldwide, Oxy holds more than 900 patents.

Proprietary Technology
Oxy applies innovative, value-added technology to every stage of the unconventional resource value chain. This includes the industry's largest aggregation of Permian Basin subsurface data, proprietary in-house drilling software, cutting-edge cloud computing, multiple patents in petrophysics and other fields essential to unconventional performance, groundbreaking research partnerships with some of the world’s leading universities and much more.

The Forefront of ESG
With a long track record of operational safety and sustainable innovation, Oxy helps set the standard for ESG performance in unconventional operations worldwide. By employing next-generation produced water recycling, large-scale emissions reduction, decreased flaring, comprehensive energy efficiency, methane emission curtailment technologies and more—we’re helping bring these important hydrocarbon assets to market not only quickly and reliably but also responsibly.