



*What is the state of America's oil and gas industry? Gauging by the rollouts of new technology at the SPE Hydraulic Fracturing Technology Conference, and all of the excitement about the NAPE Summit, the one-word summary is "strong!" Global economic realities play a defining role, yet the U.S. energy economy is leading the world, while demand for America's crude oil and natural gas exports continues to accelerate.*

## March 2019 **AOGR**



### **Unconventional Resource Science**

It is only beginning in America's resource plays as independents expand fairways and open new ones, such as Apache Corp.'s vast Alpine High in the Permian. March opens with the inside story on right-sizing custom completions based on the unique geologic characteristics of a new field on the margins of the Bakken core area. Another exclusive reveals how reservoir engineers studying "generational impacts" in the Marcellus Shale are finding new insights on mitigating frac hits between parent and child wells.

### **Permian Basin Powerhouse**

Independents of all sizes are exploring multiple zones and benches in the Southern Delaware Basin, including deeper horizons. The March AOGR shows how advanced reservoir modeling techniques are helping delineate primary and secondary targets in Paleozoic formations in the basin. Guest authors also examine the critical role that in-situ stress regimes have on optimizing drilling trajectories and completion designs, and explain how mechanical rock properties are being used to guide landing zone selection.

### **Gas Treating, Processing & Infrastructure**

The Alpine High in the Delaware is a classic example of a horizontal resource play. Its vast oil, dry gas and NGL reserves and thousands of drilling locations require multibillion-dollar investments to deliver produced liquids and gas to market. The March AOGR provides the big picture of drilling and infrastructure buildout activity at Alpine High, while other reports examine how state-of-the-art compression, treating and processing technology can improve producer netbacks throughout the country.

### **Wellsite Power Generation**

Getting enough power to run drilling, completion and production equipment is a constant challenge. The reliability of power grids varies, as do demand loads. March looks at new solutions for powering energy-intensive wellsite operations, which are often located in remote areas with sparse electric service and regions where terrain can complicate matters. Guest authors present case histories of using turbines fueled by field gas to generate electricity for production and treating equipment.



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