

Noble Energy Drives Business with Data Visibility



- **Quick Facts**
 - Committed to:
 - Safety
 - The Environment
 - Innovation
- **Operations**
 - Onshore
 - DJ Basin
 - Permian Basin
 - Eagle Ford Shale
 - Midstream
 - Eastern Mediterranean
 - West Africa
 - Exploration
- **Quorum Solutions**
 - Measurement
 - Land Management
 - Right of Way
 - Processing
 - Gathering

“ Having all of this information in one main repository has allowed Noble to centralize all measurement and volume data for easy and quick access upon request.

- Measurement Supervisor

Company

Noble Energy is a leading independent energy company engaged in worldwide oil and gas exploration and production with 80 years of success in the energy industry. Headquartered in Houston, Noble Energy is an S&P 500 company with reserves of 1.4 billion barrels of oil equivalent and assets totaling over \$19 billion in 2013. It has core operations onshore in the U.S., primarily in Colorado's Denver-Julesburg Basin and Marcellus Shale, in the deepwater Gulf of Mexico, offshore Eastern Mediterranean, and offshore West Africa.

The Solution

FLOWCAL has been the measurement system at Noble since 2008, and in early 2014 the company upgraded in order to take advantage of the liquids functionality of the software suite.

“The future with FLOWCAL and Noble Energy's measurement is very bright,” says Noble's Measurement Supervisor. “With each month we increase our use of FLOWCAL's functionality and features.”

Under the leadership of the Measurement Supervisor and the Global Production Volume Manager, Noble Energy now runs FLOWCAL 8.10.20, integrated with TESTit 2.12.3. The company currently validates, edits and processes nearly 10,000 meters each month including non-op and third-party meters for their North America operations. The closed volumes from their production meters and Lilli gas plant are delivered to downstream departments for allocation and reporting.

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FLOWCAL by Quorum Software is the most robust gas and liquids measurement data management system available, streamlining the measurement process and optimizing data integrity. Designed to operate as a data warehouse capable of serving the needs of an entire organization, FLOWCAL provides a corporate solution for the most demanding system requirements.



Validation Routines



System Balancing



Reporting

Noble recognizes the immediate benefits from FLOWCAL as they have the ability to validate the data before sending it to their downstream services. This added value ensures the integrity of their data while providing clean and accessible audit trails if data is edited. TESTit has been in place with Noble field technicians for a few years and has delivered efficiency and progress monitoring functions.

The company is currently in the process of building the Lilli gas plant and other gathering system balances which will provide valuable measurement information about the inlets of these systems, processes within the systems and deliveries from the tailgate. The measurement team is also preparing to install and implement the liquids module which will allow them to validate, monitor and track wellhead, gathering, sales, pipeline, tank, truck and LACT volumes and inventories in addition to the current gas volumes.

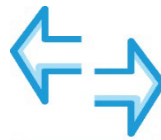
“FLOWCAL Liquids will also be very beneficial for our plants in helping us track the condensate, NGL and LNG volumes. Once all functions of FLOWCAL are implemented, Noble Energy will process well over 95MBoe/d and 144MMcfe/d through FLOWCAL on U.S. Onshore assets alone.”

Key Results



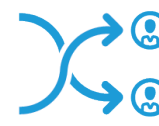
Data Integrity

Ensured data accuracy before sending information downstream



Integrated Communication

Able to send valuable measurement information between systems



Editing Flexibility

Validate, edit, and process over 10,000 meters each month



Scalability

Easily adapts to changing business requirements