

## Maximize production with real-time insight into the formation with Reservoir Group's Mass Spectrometry solution.

Our stand-alone gas detection technology measures gases collected from a gas trap extractor and continuously samples formation gas and analyzes its components in less than a two minute cycle. Combining our technology with Reservoir Group's gas formation evaluation analysts, we provide extensive expertise in the analysis and interpretation of mass spectrometry data – delivering real-time formation intelligence to increase production.

### Accurately Identify the Zone of Interest

Multilateral drilling complicates accessing the zone of interest. Our experts collect and analyze mass spectrometry data in real-time, identifying the zone of interest in the most efficient and accurate way. Reservoir Group also offers advanced geosteering services to enable optimal placement of the wellbore – maximizing production from the well.

### Advanced Gas Detection Capabilities:

Our mass spectrometry solution provides a complete fluid analysis for better insight into the formation. Reservoir Group's gas detection technology measures volatile gas components from C1 – C10, including:

- Hydrogen, Nitrogen, Oxygen, CO<sub>2</sub>
- Organic gases (Argon, Helium)
- Sulfur species (CS<sub>2</sub>, SO<sub>2</sub>, SO, H<sub>2</sub>S)
- Aromatics (Benzene, Toluene, Xylene)

### Post-Well Analysis

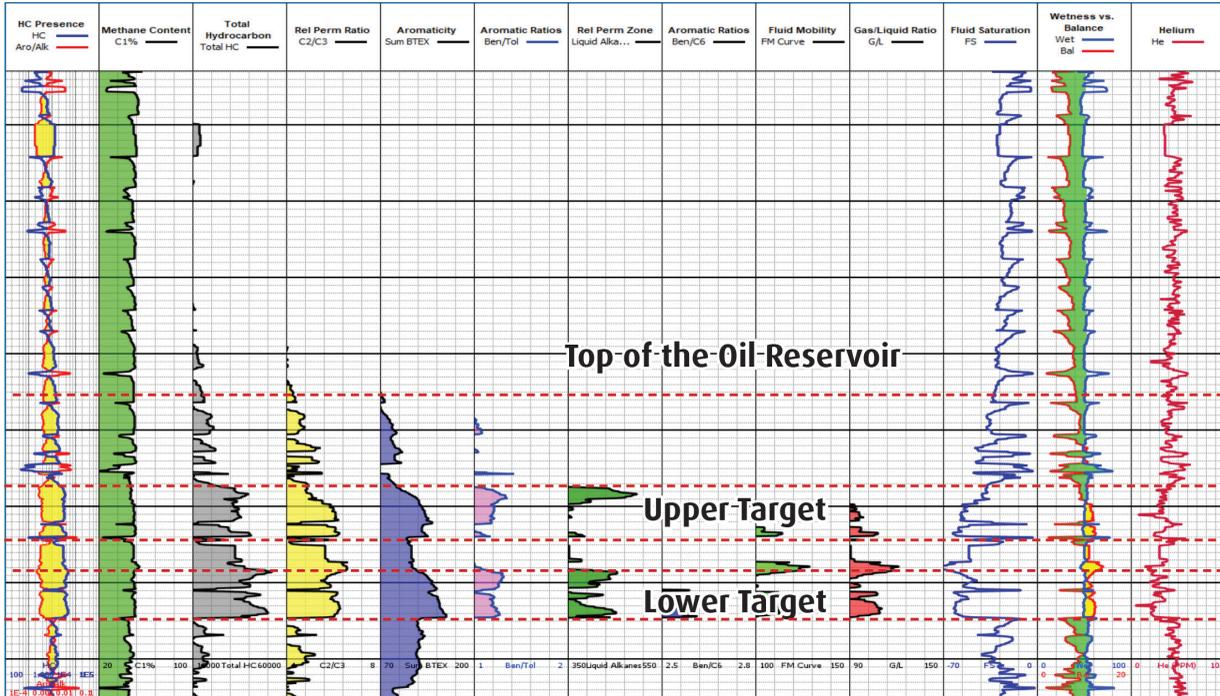
Understanding the formation is key to a successful drilling job. Reservoir Group offers post-well analysis that provides a complete formation characterization – increasing drilling efficiencies. Our experts compare well-to-well data, delivering a comprehensive basin analysis. The continuous use of mass spectrometer and data analyst interpretations, helps build a more reliable and detailed view of fluids contained within your field and can assist with field expectations and completions decisions.

## Reservoir Group's Mass Spectrometry Advantage

- Identify possible water charge
- Locate fractures and faults
- Compartmentalize plays for completions
- Near depth by depth fluid analysis
- More data in difficult-to-wireline environments
- Expert gas formation evaluation analysis

# Mass Spectrometer

Reservoir Group's gas formation evaluation analysts have extensive expertise in the analysis and interpretation of mass spectrometry data. Collecting and analyzing gas ratio curves derived from Mass Spec data can help identify multiple zones with the target and can increase production.



Analysis and interpretation of the horizontal log keeps you in the zone of interest and can differentiate between tight, fractured, or more porous zones.

