

"Rushmore's Shale Performance Review (SPR), from IHS Markit is a global data set covering drilling, completions, and hydraulic fracturing, containing the key technical, time and cost data to encompass all multistage frac'ing of horizontal wells."

## What does the Shale Performance Review provide?

- Access to proprietary Industry Data and Competitor Intelligence
- Data set covering drilling, completion and frac'ing (multi-staged frac'ed wells)
- Contains key technical, time and cost data that Operators found most useful
- Data from more than 25 Operators in 8 countries for approximately 14,000 wells
- IHS Rushmore facilitates the SPR where Operators decide what data to share, the rules for sharing, yearly changes needed, and how additional value can be gained

## Operators use the data to:

- Improve the design, planning and budgeting of well operations in order to make time and cost savings
- Compare performance amongst peer groups in times, costs and processes
- Identify and learn from top quartile performers and set measureable targets for performance improvement
- Identify successful new technologies and techniques
- Identify potential partners
- Plan new ventures

## How does participation work?

- Only Operators can participate
- Must accept the T&C's/rules that are agreed by the participating Operators
- Must provide 100% of the required data on ALL wells for any Review/country/year of participation
- Access to data in the Reviews/years/countries in which you are an Operator and are participating
- Do not gain access to data in Reviews/years/countries in which you are an Operator and are not participating
- Access to data for countries in which you are not an Operator

#### **SPR Metrics:**

## Data driven analytics

- Event based
- Quartile performance
- Physical & material frac'ing attributes





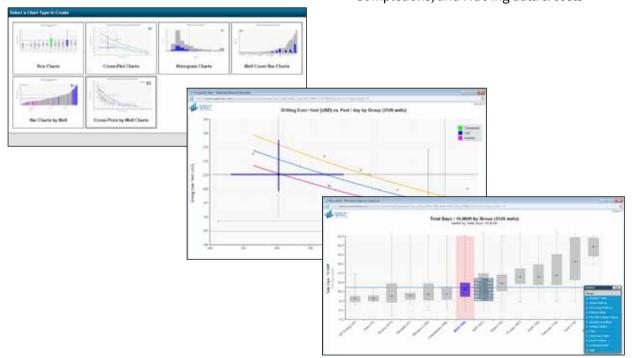
# **SPR Key Performance Indicators**

#### Performance charts available

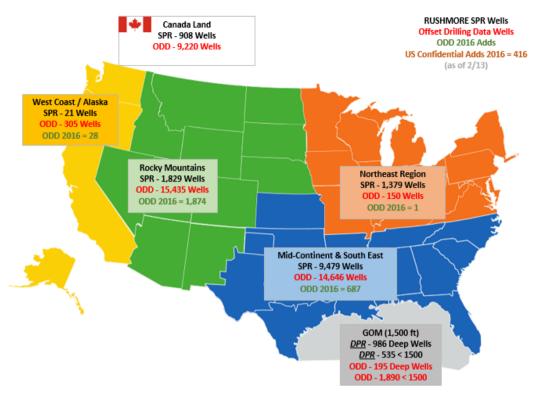
- Time versus depth
- Frac'ing materials and lengths
- Costs and 12 months of Production

#### **Compare**

- Drilling, Completions, and Frac'ing metrics
- Stages, Treated Length, # of Sleeves, Fluids pumped,
  # of Perforated Clusters and Proppants
- Compare Production levels to all Drilling,
  Completions, and Frac'ing data & costs



## SPR Participants and wells:



#### **Operators per North American Region since 2012**

WC AK	RM 13		Mid SE 20		NE 7	CA 9
1						
Chevron	Chesapeake	Liberty	Apache	Midstates	Chesapeake	Chevron
	Chevron	Marathon	BHP	Murphy	Chevron	Nexen
	Devon	NewField	Chesapeake	Newfield	Hunt	Encana
	Encana	Samson	Chevron	Pioneer	Reliance	Hunt
	EP Energy	Shell	Devon	Samson	Shell	Husky
	Hess	Statoil	Encana	Shell	Statoil	Murphy
	Hunt		EP Energy	Statoil	Talisman	Shell
			Hess	Swift		Suncor
			Hunt	Talisman		Talisman
			Marathon	Tema		

## For more information www.ihsmarkit.com

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## **About IHS Markit**

IHS Markit (Nasdaq: INFO) is a world leader in critical information, analytics and solutions for the major industries and markets that drive economies worldwide. The company delivers next-generation information, analytics and solutions to customers in business, finance and government, improving their operational efficiency and providing deep insights that lead to well-informed, confident decisions. IHS Markit has more than 50,000 key business and government customers, including 85 percent of the Fortune Global 500 and the world's leading financial institutions. Headquartered in London, IHS Markit is committed to sustainable, profitable growth.