



SIGMA³ Sets the Stage for True GeoEngineering™ Real-Time Dynamic Modeling and Collaboration through CRYSTAL™

SEG, Las Vegas – November 5, 2012 – Managing the life cycle of a petroleum asset requires true integration and collaboration. Supporting operators in their quest to optimize their exploration, drilling and production efforts, SIGMA³ has developed a visionary suite of integrated, collaborative tools to help Subsurface GeoEngineering™ teams more accurately plan, develop, and optimize fields, with particular attention to naturally fractured reservoirs.

Having confidence about where to drill, where and how to frac and complete, and where to invest requires dynamic models that can adapt for proper understanding of today's complex heterogeneous reservoirs. Combining best-in-class geoscience and engineering technology, SIGMA³ integrated services experts leverage decades of industry experience and our unique CRYSTAL™ software to generate high-resolution geologic models constrained by seismic and well data. With our proprietary Real-Time Dynamic Earth Modeling (RTDM) workflow, real-time completions data and microseismic events are visualized and interpreted in tandem with the geologic models, well geometries, and field-scale reservoir property predictions – leading to better drilling decisions, and better outcomes for clients. And with more than 70% of reservoirs containing natural fractures, oil companies can control high capital costs using the SIGMA³ proprietary Continuous Fracture Modeling (CFM™) workflow to build predictive reservoir models.

Our GeoEngineering service team leverages a single, seamless environment to enhance collaboration and optimize reservoir management as they:

- Map sweet spots with unparalleled accuracy
- Make better decisions by combining microseismic, hydrofrac data and geomodel predictions
- Integrate fine-scale petrophysical & reservoir attributes in a best-in-class 3D geocellular grid
- Reveal new details with highest-resolution imaging and inversion

“In order to be successful in today's market environment, and extract the most from your assets, you need true integration of geoscience and engineering – integration so compelling that geoscientists and engineers actually *want* to work together,” says Jorge Machnizh, CEO of SIGMA³. “We believe that an integrated, technology-led approach to reservoir understanding and management will lead to the highest ROI and provide unprecedented results for our clients. It is our sole focus, and it's where we're putting our expertise and R&D dollars.”

Smart use of fit-for-purpose data in a Real-Time Dynamic Modeling workflow gives E&P companies the power to implement the best solution and enhance production efforts, reduce drilling and completion costs, and drive profitability. SIGMA³ experts using CRYSTAL software provide a tailor-made solution that will help operators make better decisions, improve performance and enhance portfolio value.

About SIGMA³ Integrated Reservoir Solutions

SIGMA³ Integrated Reservoir Solutions, Inc., is a leading technology provider for the oil and gas industry that advises oil and gas companies where and how to drill the most prolific wells, while maximizing their production. Through a truly integrated, reservoir-centric portfolio of technology, expertise and services, SIGMA³ delivers an unprecedented level of integration that spans reservoir understanding to production optimization. For more information visit www.sigmacubed.com.

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