



## **SIGMA<sup>3</sup> Recruits All-Star Leaders to Support Vision of Real-Time Dynamic Earth Model**

***Sean Spicer, Peter O'Connor and Francois Lafferriere  
Bring Industry Expertise and Innovative Thinking***

**EAGE, COPENHAGEN, Denmark – June 4, 2012** – As oil companies search for opportunities to optimize their exploration, drilling and production efforts in complex reservoirs, operators are forced to address multiple challenges that historically have acted as barriers to success.

- Where to invest for the most productive and profitable reservoirs
- How to drill the fewest wells and plan their trajectory to make the most of reservoir properties, including geomechanical attributes, brittleness, and natural fractures
- How to design wells that best connect natural and induced fractures with the optimal number of hydrofrac stages
- What hydrofrac engineering and completion techniques will maximize production and ROI

Founded in 2011, with several best-in-class technologies – including Earth Modeling & Imaging, Reservoir Geophysics and industry-first Continuous Fracture Modeling (CFM™) and Geopressure Prediction – SIGMA<sup>3</sup> Integrated Reservoir Solutions, Inc. was on its way to becoming an organization that could help clients achieve new levels of performance by enabling accurate, efficient and unparalleled reservoir understanding. But this was just the first step in our vision to become a comprehensive, multi-disciplinary, and technology-led solutions provider that serves as a strategic and unbiased partner to oil and gas companies in their quest to find new reserves and produce maximum output from their assets.

A next level of gain was achieved by integrating Geology & Geophysics, Reservoir Engineering, and Petroleum Engineering. In March 2012, APEX Petroleum Engineering, APEXHiPoint, and HiPoint Reservoir Imaging joined SIGMA<sup>3</sup>, bringing expert capabilities in microseismic monitoring, predictive reservoir models, and hydrofracture treatment planning and execution.

We are creating an all-star team with the talent, expertise and entrepreneurial spirit to deliver extraordinary value for clients in the form of dynamic reservoir models that can significantly improve decisions about where to drill, where to frac, how to frac, and where to lease.

### **True to the Vision, SIGMA<sup>3</sup> Recruits Industry-Recognized Thought Leaders**

Spearheading the software development effort at SIGMA<sup>3</sup>, **Sean Spicer, Chief Software Architect & Lead Developer**, is an experienced entrepreneur and technological innovator with 16 years of experience designing, implementing and managing high-performance computing and computer graphics software for global technology companies, including SGI, BP and Magic-Earth/Halliburton, where he directed the strategy and development of the GeoProbe application. Spicer brings a passion for robust processes and best practices that will ensure SIGMA<sup>3</sup> delivers products that help clients meet their exploration and production goals and accelerate monetization of their assets.

Based in Englewood, CO, **Peter N. O'Connor, Sr. Director, Business Development**, has 30 years of experience in the upstream E&P industry, most recently as VP global sales for GeoMechanics International and Regional Sales Manager for Baker Hughes. With a keen understanding of geoscience technologies and engineering challenges, O'Connor has been on the cutting edge of innovation his entire career, and he excels at delivering solutions that help clients reduce drilling costs and improve production.

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To support continued growth in the upstream E&P market in Brazil, Colombia and Argentina, **Francois Lafferriere** has joined SIGMA<sup>3</sup> as **Director, Business Development**. With a reputation among E&P clients as a trusted partner, he brings expertise in geology, 3D earth modeling and geophysics to oil companies seeking to accelerate revenue growth and drive production in conventional and unconventional reservoirs throughout the region. Lafferriere has held numerous technical, consulting and business development positions in Latin America's E&P industry, including Austin GeoModeling, Paradigm and Earth Decision Sciences.

"With global OPEX and CAPEX investments proceeding at a record pace, asset teams are under pressure to explore with a clearer vision, drill and complete more efficiently and safely, and maximize production volumes," said Jorge Machnizh, CEO of SIGMA<sup>3</sup>. "To provide the next level of value for our clients, SIGMA<sup>3</sup> must deliver the game-changing technology and expertise. Sean, Peter and Francois each possess the passion and drive to deliver our vision of a dynamic and truly integrated geoscience and engineering workflow."

For more information: [www.sigmacubed.com](http://www.sigmacubed.com)

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