

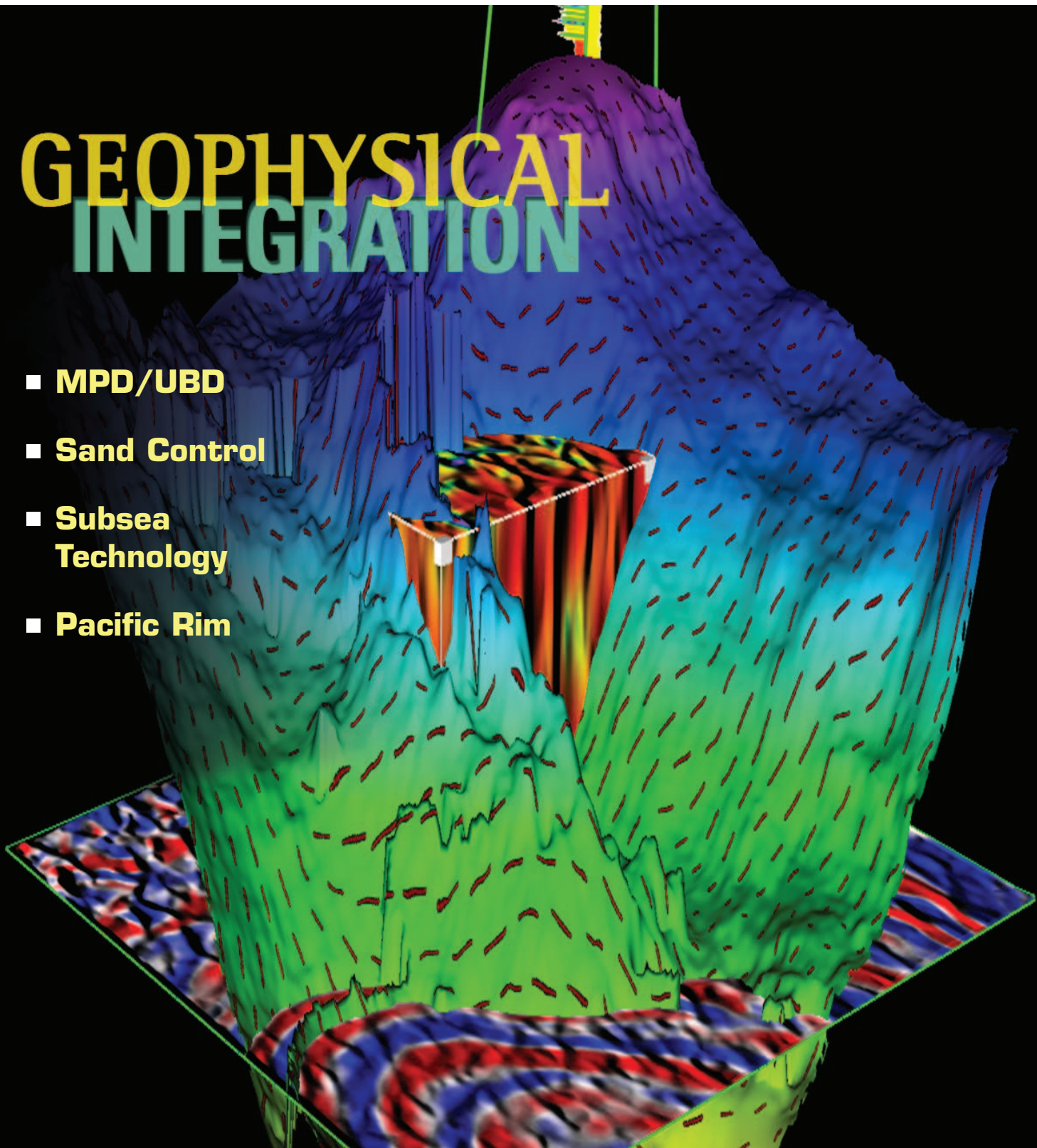
E&P

www.EPmag.com

A Hart Energy Publication

October 2008

GEOPHYSICAL INTEGRATION



- **MPD/UBD**
- **Sand Control**
- **Subsea Technology**
- **Pacific Rim**

Wellsite multiphase fluid sampling and analysis service introduced

Schlumberger has released its new PhaseSampler wellsite multiphase fluid sampling and analysis service.

The compact system operates at line pressure and temperature using an optical phase detector to distinguish between oil, gas, and water. It has a full operating range spanning from heavy oil to gas condensate.

When combined with the PhaseTester multiphase flowmeter, the PhaseSampler service is designed to improve multiphase flow rate measurements. In addition, the collection of phase representative samples allows a full recombination PVT study to be performed using the improved recombination ratio at line conditions.

A Russian operator used the service to conduct a comprehensive well testing campaign in a gas condensate field in Western Siberia. By using this service, the operator was able to accurately measure the reservoir fluid properties and rates to optimize production. It also enabled a better understanding of the transient nature of reservoir fluid composition during a multirate test and allocation of multiphase flow in commingled situations.

The service offers strong advantages over conventional sampling, the company said. It has a smaller footprint at the well site and captures individual phases of oil, gas, and water at live conditions in a multiphase flow.

www.slb.com



In combination with PhaseTester multiphase flowmeter, the PhaseSampler service provides representative fluid samples and improves flow rate measurements. (Image courtesy of Schlumberger)