

**SEVENTH ANNUAL  
GOMF DEEPWATER TECHNICAL SYMPOSIUM**  
Presented by: SPE - NOGS - AAE  
August 25 - 26, 2003 - New Orleans LA

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SCHEDULE OF EVENTS

**Monday, August 25, 2003**

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|-------------|-----------------------|---------------|
| 07:00-05:00 | Registration Open     | Lobby         |
| 07:00-08:00 | Continental Breakfast | Esplanade ABC |
| 07:00-06:00 | Exhibits Open         | Esplanade ABC |

05:00-06:00 RECEPTION IN EXHIBIT AREA

**COFFEE BREAK SPONSORS:**

Schlumberger Ltd.  
Newpark Drilling Fluids

**8:00-11:00 DRILLING TECHNOLOGY** Poydras A&B

Advancements in deepwater drilling technology have fueled a step-change in efficiency and allowed for new milestones to be challenged. The deepwater Gulf of Mexico again proves to be a most active and fertile ground for the testing and implementation of new ideas. In keeping with this year's theme, Exploiting the Deepwater Frontier, several of the presentations will emphasize improvements in development drilling technologies and processes

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| 08:00 | <b>Bill Rau, ChevronTexaco – New Orleans</b><br>"Petronius Extended Reach Drilling – Successes and Lessons Learned"  |
| 08:30 | <b>Ken Dupal, Shell E&amp;P (USA) – New Orleans</b><br>"Development of Deepwater Mooring Systems for MODU's"   |
| 09:00 | <b>Pete Wilson, GlobalSantaFe Corp – Houston</b><br>"Lofty Deepwater Development Costs Call for New Answers in Rig Design"                                 |
| 09:30 | <b>Blaine Comeaux, Halliburton/Sperry-Sun – Lafayette</b><br>"Intelligent Application of Rotary Steerable Technology in Deepwater"                         |
| 10:00 | <b>Juan Carlos Flores, Schlumberger Cementing Services - Houston</b> "Engineered Particle Size Distribution Cement – A New Standard in the Gulf of Mexico" |
| 10:30 | <b>Jesús Cabello-Montero, Shell E&amp;P – New Orleans</b><br>"Drilling the Well of the Future Today using Real Time Planning, Operations & Learning"       |

**08:00 – 11:00 RESERVOIR & ECONOMICS** Gentilly

Accurate reservoir characterization, uncertainty assessment, and development optimization are keys to economic success in the deepwater Gulf of Mexico. Understanding and management of reservoir and economic risk are fundamental contributors to overall project success. This session will demonstrate the value achieved with quality data, thorough analysis, and optimized development.

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| 08:00 | <b>Moin Muhammad, Oilphase-DBR - Houston</b><br>"Effect of Oil Based Mud Contamination on Live Fluid Asphaltene Onset Pressure"   |
| 08:30 | <b>Lisa Towery, BP - Houston</b><br>"Horn Mountain 3D Reservoir Modeling Workflow"  |
| 09:00 | <b>Sean Carey, Veritas Exploration Services - Houston</b><br>"Seismically Constrained High Resolution Geologic Modeling"  |
| 09:30 | <b>Claude Sheepens, Roxar, Inc. - Houston</b><br>"An Illustrative Example for Determining the Influence of Geologic Economic Factors for Turbidite Reservoirs Utilizing Stochastic Reservoir Modeling Techniques" |
| 10:00 | <b>Matthew W. Doan, DeepTrend, Inc. - Houston</b><br>"Application of 'off-the-shelf' Subsea Technology to Various Reservoir Types and Reservoir Economics"  |
| 10:30 | <b>Ellen Coopersmith, Decision Frameworks - Houston</b><br>"Valuing Flexibility vs. Appraisal in Field Developments – the Parallels and Relationship"   |

11:30-01:00 **LUNCH & KEYNOTE ADDRESS** Cabildo

**Lieutenant Governor Kathleen Babineaux Blanco**

**Jerry Wenzel, BP America – Houston**  
"BP Mardi Gras Transportation System"

**01:00-03:00 WELL COMPLETIONS & INTERVENTIONS** Poydras A&B

Successful execution of complex well completions in deepwater Gulf of Mexico requires extensive planning. Well interventions can be extremely costly; careful consideration of equipment requirements is essential to optimizing economics. This session will highlight recent accomplishments in deepwater well completions and interventions.

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| 01:00 | <b>Jay Shivers*, Shell E&amp;P – New Orleans and Mark Dawson, Halliburton – New Orleans</b><br>"Nakika: Successful Installation of Record Water Depth Completions in 10 subsea wells/18 zones in 9 months" |
| 01:30 | <b>Mike Mullen * Kevin Svatek, Mullen Energy- Houston, B. Cook, BP - Houston, L. Richard &amp; K. Krider, Halliburton - Houston</b><br>"Planning and Execution of a High Rate Fracpack"                    |
| 02:00 | <b>Colin Johnston, Cal Dive</b><br>"Subsea Well Interventions: Operational and economic comparison of the options available"   |
| 02:30 | <b>J. Malbrough, Halliburton</b><br>"Remedial acidizing of Deepwater Horizontal Wells in the GoM?"<br>*Speaker   |

**01:00 – 03:00 PRODUCTION SYSTEMS & FACILITIES** Gentilly

The water depth for offshore platforms is growing every year. The deepwater Gulf of Mexico is changing rapidly and the production systems and facilities must contend with the challenge. New opportunities and technology enters the industry all the time. This year's production and facilities session will highlight some of the new opportunities in deepwater, a look back at a current facility and some of the associated regulatory issues in the following presentations:

- 01:00 **Eric Wensel, Mustang Engineering - Houston**  
"Topsides Lessons Learned on Subsea Tie-backs"
- 01:25 **Andy Wolford, Consultant - Houston**  
"MMS Comparative Risk Assessment"
- 01:50 **Jim Rozycki, Shell E&P – New Orleans**  
"Auger – An Asset in Transition"
- 02:15 **Dewayne Shirah, Champion Technologies – New Orleans**  
"Subsea Downhole Injection Systems"
- 02:40 **Dr. Li Lee, Shell Global Solutions – Houston**  
"VIV Analysis of Deepwater Tubulars"

**03:00 –05:00 FLOW ASSURANCE**

Gentilly

Flow assurance focuses on modeling the thermal-hydraulic performance of oil and gas production systems. This is coupled with an in-depth knowledge of the produced fluid composition in order to develop effective management strategies for hydrates, wax, asphaltene, scale and other solids. Flow assurance challenges abound in the development in deepwater Gulf of Mexico systems due to the combined driving forces of cold ambient temperatures, high production and hydrostatic pressures, and the need for high system reliability. The papers presented in this session will focus on all phases of the flow assurance work process

- 03:00 **David Richardson, Baker Hughes - Houston**  
"Interpretation of transient pipeline simulation data enhances system reliability and profitability for oil and gas production systems"
- 03:25 **Ann Davis, Champion Technologies - Houston**  
"Laboratory and field techniques for evaluation of asphaltene inhibitor performance"
- 03:50 **Anna Johnston, Cetco**  
"Innovations in filtration system technology address the removal of oil and grease, harmful alkyl phenols and polyaromatic hydrocarbons from produced water"
- 04:15 **Colin Headworth, Halliburton**  
"Intrusive hydrate blockage remediation benefits new field developments"
- 04:40 **Mitch Means, Baker Hughes & Ian Foley – Shell E&P**  
"Automated Chemical Management System"

(More Monday Events on page 2)

**03:00 –0 5:00 GEOSCIENCE:**

Poydras AB

Since the drilling of the first deepwater wildcat well in 1975, the geosciences have played a key role in discovering 10 billion barrels of oil equivalent and demonstrating that significant potential (10 to 20 BBOE) remains for the next generation of drilling in 2003 and beyond. This session provides valuable insight into the impact of the geosciences on exploration of new deepwater plays and on high profile development projects.

- 03:00 **Frank Peel, BHP Billiton Petroleum - Houston**  
"The Geometry and Emplacement History of the Major Allochthonous Salt Sheets in the Central US Gulf of Mexico Slope: A Regional Review"
- 03:30 **Louis Liro, Repsol YPF - Houston**  
"Comparison of Allochthonous Salt Deformation and Sub-Salt Structural Styles, Perdido and Mississippi Fan Foldbelts, Deepwater Gulf of Mexico"
- 04:00 **Chris Clayton, Shell E&P – New Orleans**  
"Composite Sequences, Seismic Facies, and Reservoir Distributions in the Diana Hoover Basin: Gulf of Mexico"
- 04:30 **Toby Roesler, Murphy E&P Co – New Orleans**  
"Frontrunner Field – Green Canyon Blocks 338, 339, 382; Blessed by Failed Direct Hydrocarbon Indicators"

**TUESDAY, AUGUST 26, 2003**

- 07:00 **Registration Open** Lobby
- 07:00 **Exhibit Open** Esplanade ABC

**8:00 -10:00 HEALTH, SAFETY & ENVIRONMENTAL** - Gentilly

- 08:00 **SUSTAINED CASING PRESSURE:** Pressure integrity in wells is critical for sustainability as we move to deeper and more complicated production systems. A large number of wells in the Gulf of Mexico have sustained pressure on one or more annuli. Fortunately to date, no major incidents have occurred as a result of these pressures. Currently, the governing regulation for managing and reporting casing pressures are contained within a 1994 "Letter to Lessees". It is apparent that additional guidance is needed for dealing with sustained casing pressure, particularly for subsea and hybrid type wells. This session will focus on the past (issues and regulation history), current state (MMS perspective and practices), and the future (joint efforts on API Recommended Practice) regarding sustained casing pressures in offshore GOM wells.
- 09:00 **Acoustic Interactions with Sperm Whales:** In recent years environmental organizations worldwide have selected increasingly aggressive tactics in efforts to prevent anthropogenic sounds from harming marine mammals. As the E&P industries push into ever deeper waters, encounters with many more species of these animals becomes certain, especially with the endangered sperm whale. Problematic is the paucity of data needed to establish acoustic criteria which will be protective of sperm whales while allowing necessary industry activities to proceed. Reports in this session will identify key issues and what work is being done to resolve them.

**08:00–10:00 EXPLOITING THE DEEPWATER FRONTIER** Poydras AB

A total of 65 deep water projects were on production by the end of 2002 and another 11 are projected to begin in 2003 and a further 14 in 2004. By the end of 2007 the MMS estimates a total of 96 fields on production. Latest projections from known discoveries indicate that production rates will peak in 2006 at between 1.25 and 1.5 Million Barrels of oil/day with associated 3.8-4.2 Bcf/day. As the deep water becomes more mature, the concept of using a centrally located facility as the production hub servicing multiple subsea satellite fields is key to exploiting and developing smaller deepwater discoveries. However there are limitations. Flow assurance challenges and umbilical and control system costs increase exponentially at greater tieback distances. The key is balancing the length of subsea tiebacks with the cost of production facilities to develop the most economical and flexible field development alternatives

- 08:00 **James Grant, Minerals Management Service - New Orleans**  
 "Current activity levels in the Deep water and associated challenges and concerns"
- 8:30 **Fred Wasden, Shell E&P - New Orleans**  
 "NaKika – Technology Enabling a Record Water Depth Development"
- 09:00 **Jasper Ring, ChevronTexaco - New Orleans**  
 "Management of Typhoon – A Deep Water, Sub-Sea Development"
- 09:30 **Bill Gray, Pioneer Natural Resources - Dallas**  
 "The Falcon Corridor Development – From Vision to Reality"

**10:00 - 12:00 MANAGEMENT PANEL** Cabildo ABC

**Facilitator: Dean McPhearson, Baker Hughes**

Emerging offshore technology, Best-In-Class products and services and innovative practices have contributed to success during the first phase of operations in the deepwater Gulf of Mexico. As the industry moves to even more challenging frontiers, **what will be the next breakthroughs that will enable operators to exploit the ultra deepwater Gulf of Mexico?** After brief remarks by each panelist, the panel will field questions from the audience. The panel will include:

- **Mike Reddin - Houston**, Performance Unit Leader (Horn Mtn & Marlin), BP America, Inc
- **Paul Goodfellow – New Orleans**, Operations Manager Floaters, Shell EP Americas
- **John Chaplin - Houston**, GoM Production Manager, ExxonMobil, Inc
- **Brenda Dulaney – New Orleans**, Business Development Manager, ChevronTexaco, Inc
- **Mark McCurley - Houston**, VP Deepwater & Natural Gas, Halliburton Energy Services
- **Dan Houser - Houston**, VP and GM Project Development, J.Ray McDermott
- **Chris Oynes – New Orleans**, GoM Regional Director, Minerals Management Services
- **Mary L. Landrieu**, United States Senator

**01:00 EXHIBITS CLOSE**

**EXHIBITORS**

| <b><u>COMPANY</u></b>                   | <b><u>BOOTH</u></b> |
|---|---------------------|
| M-I L.L.C.                              | 1                   |
| Sii - Smith Services                    | 2&3                 |
| Nova Technology Corporation             | 4                   |
| Intertek Caleb Brett                    | 5                   |
| Hydro-carbon                            | 6                   |
| Decision-team – Software GmbH           | 7                   |
| Seal-Tite L.L.C.                        | 8                   |
| Expro Americas, Inc.                    | 9                   |
| BJ Services                             | 10                  |
| Champion Technologies                   | 11                  |
| Baker Hughes, Inc.                      | 12&21               |
| W.H. Linder & Associates, Inc. (LINDER) | 13                  |
| The OCS Bulletin Board System Website   | 14                  |
| Roxar, Inc.                             | 15                  |
| Schlumberger Limited                    | 16                  |
| MonoSep                                 | 17                  |
| T H Hill Associates, Inc.               | 18                  |
| Paradigm                                | 19                  |
| PENCOR Division of Core Laboratories LP | 20                  |
| Tech Oil Products/Enviro-Pak            | 22                  |
| SPS International                       | 23                  |
| Ondeo Nalco Energy Services             | 24                  |
| Diamond Products International          | 25                  |

**CHAIRMAN'S MESSAGE**

The New Orleans Deepwater Symposium planning committee welcomes you to our seventh annual gathering, which will give attendees the opportunity to hear cutting edge technology presentations and to challenge our industry's leading engineers and scientists. We invite you to take the opportunity to gather information on both proven and emerging technologies, to network, to visit our exhibitors and to enjoy our city's antiques, restaurants, and night life. Please remember that your participation will enable this joint symposium (SPE-Delta section, AADE- New Orleans Chapter & NOGS) to continue delivering practical information on leading edge technology. FYI – no abstracts or papers will be distributed.

Enjoy the journey,  
 Dean McPhearson  
 2003 General Chairperson