

9th Annual
**GULF OF MEXICO
 DEEPWATER**

TECHNICAL SYMPOSIUM

**“THE ESCALATING ROLE
 OF THE DEEPWATER”**

MONDAY, AUGUST 15
 TUESDAY, AUGUST 16

HILTON RIVERSIDE HOTEL
 NEW ORLEANS, LA

PRESENTED BY:

SPE • NOGS • AADE



Society of Petroleum Engineers



Methane Ice Worm
 GC BIK 234, water depth: 1757'

Photo by: Gregory S. Bolland

MONDAY, AUGUST 15

CONTINENTAL BREAKFAST	8:00 AM - 10:00 AM
REGISTRATION	9:00 AM - 3:00 PM
EXHIBITION HALL OPEN	8:00 AM - 7:00 PM
RECEPTION	5:00 PM - 7:00 PM

CONCURRENT SESSIONS 10:00 AM - 12:00 PM

FUTURE TECHNOLOGY – LEAD CHAIR: Dean McPhearson

The challenge of meeting future oil and gas demand is formidable. Consumption is predicted to increase up to 60% by 2030. How will we economically develop fields to sustain the projected requirements? Reliable evaluation, drilling, completion, & production systems are key enabling technologies. Recent operations confirm systems viability.

This session will include discussions of a drilling system to see the earth's characteristics; a completions system to drain the earth's reservoirs; followed by a production system for processing hydrocarbons. The last presentation will focus on developing high temperature/high pressure technology systems designed to assist in resolving these technical challenges.

- Benefits of High Resolution Formation Evaluation
- Completion & Well Performance Results
- Managing Upstream Oil & Gas producing assets – an overview of the Independence Project, Eastern GOM
- Ultra-Deep High Temperature, High Pressure Environments

HEALTH, SAFETY, AND ENVIRONMENTAL – LEAD CHAIR: Sandi Fury

The evolution and advancement of deepwater technology continues to expand the horizon for viable development of oil and gas on the OCS. Additionally, the value of existing GOM energy infrastructure has been recognized and is being sought for use by the Industry as a viable and attractive means to increase natural gas supplies to the US through the development of offshore LNG terminals. While these technology enablers further enhance the value of the GOM and its energy infrastructure, with it come new challenges. This session will explore and discuss some of the new environmental and safety challenges and learnings related to OCS development in the GOM which have come to light due to the continual transformation of this Industry.

- The Best Practices of Journey Management for Crew Changes
- Chemosynthetic Communities of the Gulf of Mexico: History of Discoveries, Recent Research and New Directions
- Potential Impacts of Offshore LNG Facilities on Fisheries Habitat in the GOM

MONDAY, AUGUST 15

LUNCH & KEY NOTE ADDRESS 12:00 PM - 1:30 PM

LA 1: Gateway to the Gulf, – Roy Francis, Executive Director, LA 1 Coalition, Inc.

CONCURRENT SESSIONS 1:30 PM - 4:30 PM

RESERVOIR & ECONOMICS – LEAD CHAIR: Richard Hannan

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.

- Pressure Gradients and Fluid Analysis as an Aid to Determining Reservoir Compartmentalization
- Improving Pay Recognition Through Use of Rock Typing
- Pressure and Depletion Behavior of Layered Reservoirs
- 17-Hands Field Development and Economic Optimization
- The assisted history matching of a Medusa Field well using a multipurpose environment for parallel optimization
- Hurricane Ivan Impact on the North American Gas Market

DRILLING TECHNOLOGY – LEAD CHAIR: John Combes

Advancements in drilling technology continue to originate in the deepwater Gulf of Mexico and, this year, are accelerated by best practices in both knowledge and project management. In keeping with our theme, The Escalating Role of the Deepwater, several of the presentations document the increasingly important role played by these deepwater drilling technologies.

- Pushing the Limits
- Planning the Tahiti Well Test – A Case History
- Deepwater Cementing Best Practices Help in Reducing NPT
- Drilling Fluids Planning and Execution for a World Record Water Depth Well
- Performance Verification of Conductor/Conductor Casing Connections
- WellDECC – Addressing the Design and Execution of Complex Deepwater Wells

RECEPTION 5:00 PM - 7:00 PM

TUESDAY, AUGUST 16

CONTINENTAL BREAKFAST 7:00 AM - 8:00 AM

REGISTRATION 7:00 AM - 10:00 AM

CONCURRENT SESSIONS 8:00 AM - 10:00 AM

FLOW ASSURANCE – LEAD CHAIR: Allen Willey

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.

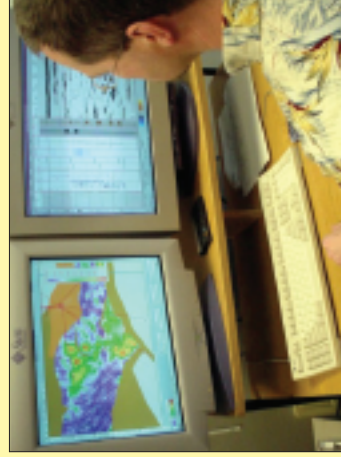
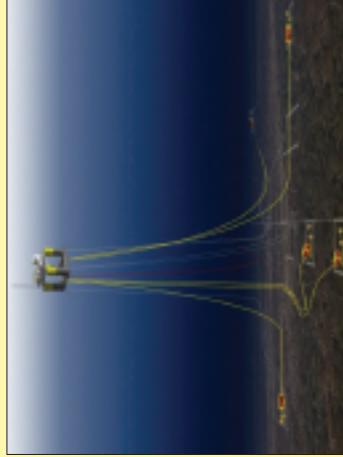
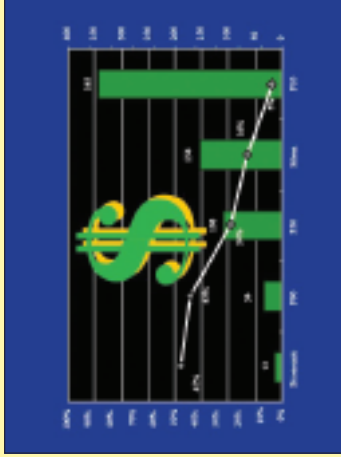
Flow assurance challenges abound in the development in deepwater Gulf of Mexico systems due to the combined driving forces of cold ambient temperatures, high production and hydrostatic pressures, and the need for high system reliability. The papers presented in this session will focus on all phases of the flow assurance work process.

- Case Study for Low Dosage Hydrate Inhibitors in the Deepwater Gulf
- Scavenging H₂S in deep gas production facilities in the Gulf of Mexico
- Maintaining downhole pressure/temperature effects on fluid flow conditions
- Application of asphaltene inhibitors via subsea flowlines

GEOSCIENCE – LEAD CHAIR: Bob Meltz

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 – 20 BBOE) remains for the next generation of drilling in 2005 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.

- A Work Process to Risk Prospects with Seismic Amplitude Anomalies – Lessons from an Industry Consortium
- Depositional Models for Deep-Water Miocene Reservoirs in the Jubilee and Spiderman Gas Fields, Eastern Gulf of Mexico
- Green Canyon – A Comparison of Plays, Discoveries and Potential
- Tahiti Discovery – Opening Another Deepwater Frontier



CONCURRENT SESSIONS 10:00 AM - 12:00 PM**PRODUCTION SYSTEMS** – LEAD CHAIR: Mark Manuel

As deepwater subsea tiebacks become a greater percentage of the Gulf of Mexico's total production, it is important we fully understand the complexities these subsea tiebacks have on host facilities. This year's production systems and facilities session looks at specific case studies and perspectives that illustrate the challenges and risks that subsea tiebacks can have on existing offshore production facilities. This session will also look at some emerging subsea technologies that are enablers for future subsea production systems.

- ❑ Impact of fluid property modeling on multiphase flow meter accuracy
- ❑ Real Time Flow Assurance analysis using model based virtual metering
- ❑ Operability of production to the Nakika deepwater hub and the effects of Hurricane Ivan
- ❑ Simplifying the complexities in the design of the Medusa Top Tension Risers

COMPLETIONS – LEAD CHAIR: Robert Pourciau

As the industry moves into deeper water and as existing deep water producing assets mature, completion and intervention challenges are increasing. This session covers a broad range of completion topics including subsea well intervention, water injection designs, long interval Frac Packs, large production tubulars for maximum rate, and compaction resistant completion designs. In addition, one presentation will be targeting the high pressure and high temperature technology gaps, options, and risk management requirements.

- ❑ Case History – Initial Completions, Holstein Field
- ❑ Medusa Project – Deepwater Gulf of Mexico Completions
- ❑ Troika Field – A Well Failure and Then a Successful Workover
- ❑ Extreme HP/HT Completions – Technology Challenges Facing Deep Gas Wells

LUNCH & KEYNOTE ADDRESS 12:00 PM - 2:00 PM**“ASSESSMENT OF HURRICANE IVAN ON OIL AND GAS PRODUCTION”**

– Don Howard, Regional Supervisor for Field Operations, MMS

MANAGEMENT PANEL 1:45 PM - 4:00 PM**“WHAT HAS THE INDUSTRY LEARNED FROM IVAN?”** – FACILITATOR: Phil Moses, Dominion E&P

Last year's Hurricane "Ivan" had a significant impact on the offshore GOM oil and gas industry. All aspects of exploration and production in the central and eastern Gulf of Mexico felt the force of this storm. The MMS indicates that as of January 31, 2005, Hurricane Ivan was responsible for shutting in more than 42 MMBO and 164 BCFG, the largest amount of cumulative shut-in production in the history of the GOM. What has the industry learned from this? Key management personnel from the MMS, major and independent operators as well as management representatives from key service sectors will discuss their perspectives. After brief remarks by each panelist, the panel will field questions from the audience. The panel will include:

- ❑ Kevin Guilbeau, Sr. VP & GM, Offshore, Dominion E&P Company
- ❑ Chris Oynes, GoM Regional Director, Minerals Management Services
- ❑ Melody Meyer, VP GOM SBU, Chevron North America Exploration & Production Co.
- ❑ Frank Glaviano, Regional Production Director, Shell Energy Resources Company
- ❑ Gordon Wilkinson, VP, General Manager, Business Development
– Americas, J Ray McDermott

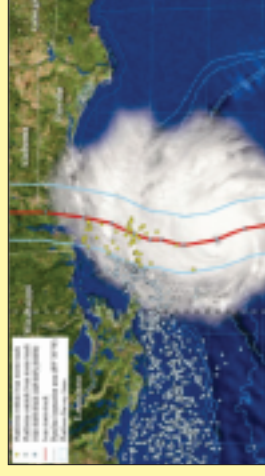
PASSPORT AWARDS 4:00 PM**EXHIBITS CLOSE 5:00 PM****EXHIBITION BOOTH INFORMATION**

The exhibit area for the 2005 DWS will accommodate 30 exhibitors on a first come first served basis. The 8' X 10' booths will be located in a separate room adjacent to the sessions. The exhibit area will be the highlight of an "Exhibitor Reception" on Monday night as well as the focal point of each break during the technical sessions.

Please contact Dean McPhearson (dean.mcphearson@bakerhughes.com or 504-561-7936) or Lori Davis (lori@rigchem.com or 985/873-7208) for more details.

SPONSOR INFORMATION

If your company is interested in co-sponsoring our breakfast or reception, please contact Lori Davis, Rig-Chem, 985/873-7208: (lori@rigchem.com)



REGISTRATION FORM

AUGUST 15 & 16, 2005 • HILTON RIVERSIDE HOTEL • NEW ORLEANS, LA

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CONFIRMATIONS WILL BE SENT VIA E-MAIL

SOCIETY AFFILIATION: SPE NOGS AADE SOCIETY MEMBER _____

REGISTRATION FEE: \$200.00 Member/\$250.00 Non-Member (Includes Breakfast, Lunch & Reception)
(May be a member of SPE, NOGS or AADE)

(Registration Fee is Non-Refundable)

Registration is limited, and will be on "First Paid – First Served" basis.

(SPE is a non-profit organization under Sec. 501 [c] [6] of the Internal Revenue Code. Taxpayer ID# 72-0925603)
Checks should be payable, and mailed to:

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CONFIRMATIONS WILL BE SENT VIA E-MAIL

REGISTRATION INFORMATION

Attendance at the Deepwater Symposium will be limited. Please register early. You may register Online at the SPE Website – spe-delta.org.

Email, Regular Mail, or Fax.

(see Registration Form for registering information).

REGISTRAR

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Phone: 504/593-7300

c/o Dominion E&P Inc.,

1450 Poydras Street, New Orleans LA 70112-1242.

GENERAL CHAIRMAN

Phil Moses, Dominion E&P, 504/593-7311

philip_a_moses@dom.com

HOTEL INFORMATION

Hilton Riverside Hotel

Poydras Street at the Mississippi River

New Orleans LA 70113

504/561-0500 – 1/800/445-8667

Special room rates of \$89 per night apply if reserved by July 21st 2005.

Please quote Group/convention code TDW when making your reservation.

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