

# NOIA 2010 Fall Meeting

Scottsdale, AZ

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# Objectives

- Make improvements
- Reduce risk
- Increase environmental protections
- Return to drilling in the Gulf of Mexico

# Energy Industry Response

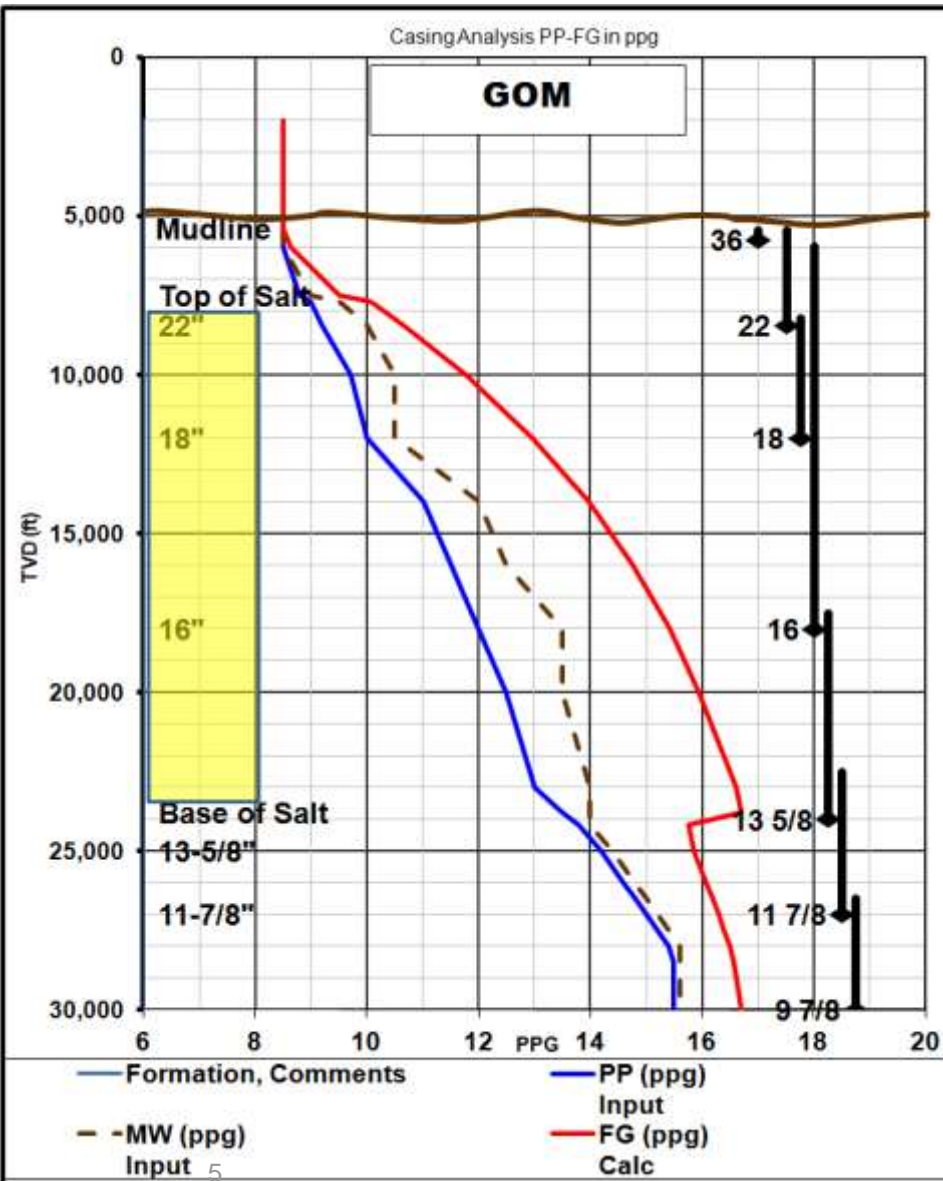
Created four Joint Industry Task Forces to attack these issues:

- Prevention
  - **Operating Procedures Task Force**
  - **Equipment Task Force**
- Intervention
  - **Subsea Well Control and Containment Task Force**
- Spill Response
  - **Oil Spill Preparedness and Response Task Force**

# Operating Procedures Task Force

- Focus on Drilling & Completion safety, design, procedures and operations associated Deepwater Wells
- 70+ participants, 25+ organizations
- JITF met ~2 weeks in May to develop recommendations for DOI focused on (5) areas:
  1. Cementing – refer to API RP65 Part 2
  2. Loads and Resistance
    - Lock casing hanger assembly into subsea wellhead when installing casing
    - Develop deepwater well design considerations (now API RP 96)
  3. Fluid Displacement and Negative Testing
    - Close BOP on pipe & circulate thru choke line to prevent gas entry to riser
    - Monitor displacement volumes in and out of wellbore
    - Position shearable components across shear rams
  4. Abandonment and Barriers
    - Recommend two or more independent barriers for each flow path
    - Verification
  5. Adopt Safety Case & develop Well Construction Interface Doc (WCID)

# API RP96 DW Well Design Considerations



- DW Rig Sys Impact on Well Design
- Barriers
  - Philosophy, type & number
  - Validate, accept & maintain
- Fluid Displacements
- Well Design & Loads
  - Production Liner or Long String
  - Tubing & Casing & APB
  - Wellhead Bending & Fatigue
  - Casing Wear
- Well Op's (Drill, Comp, TA/PA)
- Management of Change
  - Unexpected & Contingencies
  - Interface with Stakeholders

# API RP 96 DW Well Design Considerations Forward Plan

## Complete

- Kick off General Meeting #1
- Develop initial outline
- Organize into sub teams and select sub team leads
- Sub teams meet and add content to outline
- Select Engineering Consultant as tech writer
- Review and vet sub team work
- General Meeting #2
- Begin Draft #1
- Review/Comment Draft #1

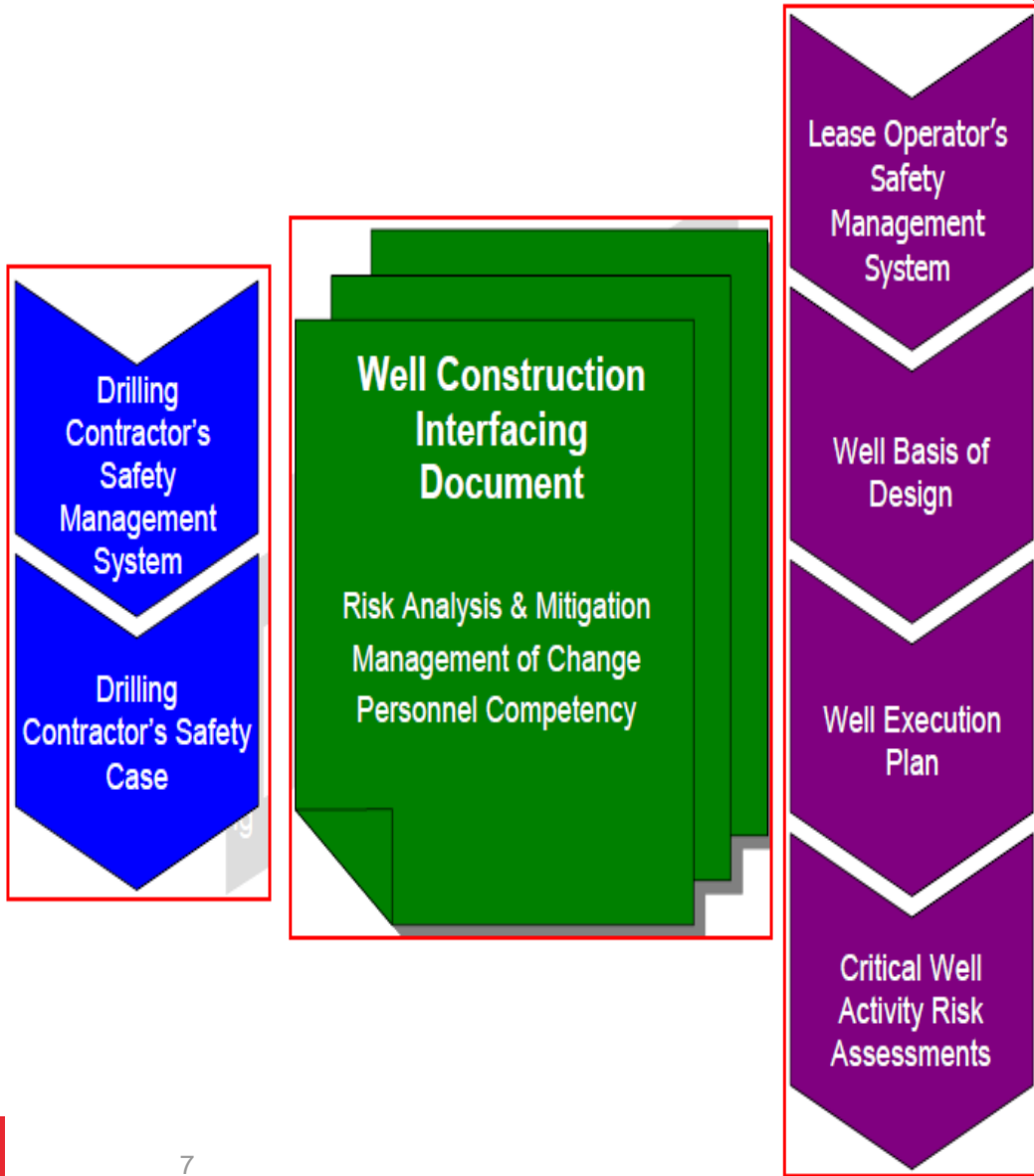
## In Progress

- Review Draft #2

## Outstanding

- Pre-Ballot vote on Draft #2
- Draft #3
- General Meeting #3
- Draft #4
- 1st Ballot vote on Draft #4
- Comment resolution Draft #4
- 2nd Ballot (if necessary)
- Publish API RP 96 1st Edition  
April 2011

## Well Construction Interfacing Document (WCID)



- Well Construction Interface / BOD
  - Location & Environment
  - Geologic & Geophysical
  - Well Design
  - Well Barriers (with Much Detail)
  - Casing Design
  - Well Execution Plan (with Detail)
  - Critical Well Risk Assessments
- Rig Contractor SC & Operator SMS
  - Mmgt Structure / RR's / **SWA**
  - MOC - Rig Contractor & Operator
  - Personnel Management
  - Well Control Procedures
  - Risk Management Processes
  - Emergency Response
  - Monitoring, Auditing And Review

# WCID Forward Plan

## Complete

- Sub Team Kick Off meeting
- Initial WCID guidelines outline
- Sub Team vet WCID outline with JITF Procedures Group
- Sub Team develops additional detail and explanation
- Seek additional comment from JITF Procedures and BOEM
- Sub team updates draft WCID
- IADC / API approval for joint WCID standard
- HSE Case / WCID Workshops for Industry – Houston, Lafayette & New Orleans

## In Progress

- Developing WCID Example
- Developing FAQ's

## Outstanding

- HSE Case / WCID Workshop for BOE
- Release 1st edition of WCID Guidelines for general use by Industry



# Offshore Equipment Task Force

- Reviewing Current BOP Equipment Designs, Testing Protocols, Regulations and Data
  - Secondary BOP Control Systems
  - BOP Testing and Test Data
  - Remotely Operated Vehicles
- Addressing Health, Safety & Environment Case
- Over 60 Participants; Over 30 Organizations

# Offshore Equipment Task Force

- Recommendations
  - Safety Case Regime
  - A robust MOC process
  - Suggested to add Deadman to floating rigs
  - Suggested standard to use API Spec 17H ROV stabs (high flow, single port)
  - Evaluate Acoustic Sys (due to poor past history)
- Work groups
  - Shearing team – accessing shear data
  - ROV team – standards for GOM
  - Acoustic team - investigate Acoustic reliability

## Progress to Date

- Provided input to DOI's 30-day Safety Report
- Issued API Recommended Practice on Cementing
- Developed a Well Construction Interface Document to align safety programs
- Developing a new API Recommended Practice on Well Construction

## Future Work Planned

- Finalize Well Construction Interface Document
- Finalize API Well Construction Recommended Practice
- Issue final reports of the Equipment and Operating Procedures JITFs

# Summary

- Significant progress made to improve prevention, intervention and spill response
- Industry believes enough progress has been made to return to work now
- Industry believes enough progress has been made to accelerate the issuance of drilling permits
- Commitment to making further progress

For copies of the Task Force reports:

<http://www.api.org/Newsroom/call-safety-changes.cfm>