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*Global Expertise*  
*Local Presence*

# Moody International



- Leading worldwide technical services organization
- Dedicated to reducing client risk
- Established in 1911
- 80 offices in 60 countries
- 3,000 consultants globally



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# Moody International Consulting & Training



- Specializes in high risk industries
- Has an extensive customer base
- Train personnel who:
  - Work in labor-intensive jobs
  - Have varying levels of education
  - Are typically a male-dominated workforce, many of whom are younger
  - Work in remote locations



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- Annually, we train approximately 30,000 people, in 40 countries and 15 languages



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# Have you been on a rig and noticed...?

- Alarms turned off, especially when tripping
- Barksdale 4-way valves “centered” on the accumulator
- No pre-recorded slow pump info
- Manifolds not lined up correctly
- Poor handover information
- Stabbing top drive in lieu of safety valve
- No stabbing valves visible on rig floor (IBOPs?)
- Rotary not centered and no concern it’s not
- Poor participation in drills (no drills?)



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# Which lead to the realization...



“A crew may be knowledgeable and skilled but it’s their **behavior**, that determines the level of risk and safety with regard to well control.”

While personnel *may* know how to:

- Properly function
- Observe
- Monitor
- Record
- Regulate
- Control
- Identify
- Test



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# Behavioral Elements

- Insufficient attention to detection parameters
- Lack of communication among rig team members
- Dictatorial leadership of Company Man
- Poor attitudes of crew members
- Minimal documentation of important details and trends (PVT & flow show charts “after” a kick!)



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# IADC Identification of Knowledge, Skills & Abilities



## An Alternative Definition:

**Well Control Competency** - “Having essential and necessary well control Knowledge, Skill, and **Behavior.**”

- “Knowledge and skill” can be gained through training and verified by audits, tests and formal demonstrations.
- What is “essential and necessary” is determined by company policy, industry focus groups (IADC, IWCF, API) and by regulatory agencies.
- The “behavior” component is the more challenging to have or manage and must be done so by molding the “well control culture” within an organization.



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# Workplace Culture



Culture – “the **integrated pattern of behavior** that includes thought, speech, and actions and depends upon the capacity for learning and transmitting knowledge...”

Integrated – **united** into a whole.

All drilling rigs have a safety culture established, it’s the nature of the work environment – “that’s the way we’ve always done it”. This culture can be molded by emphasizing desirable behavior.



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# Creating a Culture of Well Control Safety



## Vision

*Minimize Well Control Incidents & Respond Appropriately*

## Culture

Well Control As A Core Value

Assumptions

## Strategy

Detailed Well Plan

## Relationships

Operator, Drilling Contractor, 3<sup>rd</sup> Party

Assumptions

## Goals

Defined Drilling Curve

## People

Specific Duties & Training by Job Classification

Assumption

## Tasks

Well Control Policies & Procedures

*" Blowout preventers and related equipment will be pressure tested with no more than two weeks duration between tests"*



**Industry**

**Government**

**Equipment /  
Engineering**

**Policies /  
Legislation**

**Culture  
Of  
Safety**

**People**

Building a strong safety culture depends on individuals expecting zero incidents.



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