INTRODUCTION

This Stuck Pipe Prevention & Fishing Operations seminar provides a comprehensive coverage in the industry for understanding and preventing the underlying causes of Stuck Pipe, Wellbore Instability, Loss Circulation, and other sources of non-productive time (NPT) in drilling operations. The seminar also focuses on correct responses by individuals and teams, early warning signs, and minimizing the impact to drilling operations. Through world-class presentations, practical discussion, and the best reference and instructional materials available, delegates hone their knowledge of basic drilling technology and how it relates to avoiding NPT.

Preventing stuck pipe incidents can save thousands of dollars in non-productive time. Stuck Pipe Prevention covers topics to eliminate or greatly reduce stuck pipe incidents on your rig. This seminar emphasizes on the prevention of stuck pipe and the team concept is used throughout the seminar, explaining the contribution and value of every crew member in the goal of keeping the pipe free.

This training seminar will feature:
- How to predict and make the contingency plan to prevent the stuck pipe
- How to write the proper report for the stuck pipe incidents

OBJECTIVES

By the end of this training seminar, participants will be able to:
- Identify mechanisms and risk factors that lead to stuck pipe incidents (Wellbore Instability, Hole Cleaning, Differential Sticking, and Wellbore Geometry)
- Assess mechanics of wellbore stresses and the impact on wellbore stability
- Analyze trends to identify early warning signs of developing wellbore problems
- Implement effective drilling and tripping practices
- Make cost-effective choices in planning fishing operations

TRAINING METHODOLOGY

This training seminar will utilize a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. The daily workshops will be highly interactive and participative. The seminar will include all types of stuck pipe and the recommended procedures for preventing by analyzing the operations, how to free the stuck pipe in case of occurrence, hole cleaning and impact on the problems, and fishing tools and jar energize.

ORGANISATIONAL IMPACT

The organization will gain, in sending their employees to attend this particular seminar, the following:
- Overcome the NPT particularly controlling the well with proper prediction for the problems eliminating all causes of problems before it occurs
- Extending the well life including all the affecting items in well design
- Ensuring the well integrity, avoiding all risks and solve the problem in a logic and simple ways

PERSONAL IMPACT

- Obtain integrating knowledge of hole problems
- Hone their knowledge and get the self-confidence for well design in the proper methods
- Get the latest technology in well inspection, the way to control any problem and the procedures for monitoring.
- Solving and avoiding the problems which impact on the cost reduction and well integrity

WHO SHOULD ATTEND?

This training seminar is suitable to a wide range of professionals but will greatly benefit:
- Mud Engineers
- Drilling Supervisors
- Drilling Engineers
- Tool Pushers
- Senior Drillers
- Drilling Superintendents

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DAY 1

- Rock Mechanics
  - Stress - strain diagrams
  - Geo-mechanics and structural geology
  - Mechanics and causes of folding
  - Mechanics and causes of faulting and fractures
  - Factors affecting the bore hole stability
  - Induced factors affecting bore hole stability
  - Drilling fluid effect on bore hole stability
  - Shale stabilization
- Wellbore Stability
  - Mechanical conditions
  - Shale deposition and sedimentary rocks
  - Clay Chemistry
  - The Earth’s stresses
  - Mechanical stress failure
  - Chemical interactions
  - Physical interactions
  - Well site Analysis

DAY 2

- What is Stuck Pipe?
  - Primary cause of downtime
  - See warning signs and respond
  - Stuck pipe is almost always preventable
  - Definition
  - Causes
  - Mechanical
  - Formation problems
  - Human error—lack of communication
- What causes Stuck Pipe?
  - Human factors
  - Lack of team work
  - Lack of communication
  - Lack of planning
  - Failure to read warning signs
  - Failure to follow procedures
  - Most stuck pipe situations happen at tour change
- Use tour change form to record conditions and identify trends
- Types of sticking
  - Formational sticking
  - Differential sticking
  - Cause for most stuck pipe situations
  - Drilling overbalance most common cause
  - Geopressed formations
  - Reactive formations
  - Unconsolidated formations
  - Mobile formations
  - Fractured or faulted formations
  - Mechanical sticking
  - Key seating
  - Wellbore geometry
  - Under-gauge hole
  - Inadequate hole cleaning
  - Junk in the hole
  - Cement problems
  - Casing problems
- Differential sticking
  - Definition
  - Most common in sandstone and high permeability formations
  - Why circulate fluids in hole?
  - Remove cuttings
  - Seal the wellbore
  - Control well pressure
  - Mud formulation
  - Drilled overbalanced defined
  - Filter cake defined
  - Drill string flexing defined
  - Avoiding differential sticking
  - Rotate
  - Circulate
  - Move drill string up and down
  - Communicate
  - Differential sticking definition
- Case Histories (workshop)
DAY 3

- Warning Signs
  - Three mechanisms—definitions and causes
  - Hole pack off or bridge mechanism
  - Differential mechanism
  - Geometry mechanism
  - The hole is talking—definitions and descriptions
  - Torque changes
  - String weight changes
  - Circulation rate changes
  - Pump pressure changes
  - Mud properties
  - Changes at the shakers
  - Your records indicate changes
  - Name the mechanism—simulation
  - Talk to others around the rig
  - Gather clues
  - Come up with a diagnosis
- Prevention plan
  - Review three sticking mechanisms—definitions and causes
    - Differential
    - Wellbore geometry
    - Hole pack off/bridging
- Have a stuck pipe prevention plan
  - Team work and communication
  - Mud must be ready and conditioned properly when it returns to the surface
  - Chemicals and mixing agents must be on hand to avoid delays
  - Hydraulics are important
  - Shaker hand should communicate what's shaking to the driller
  - Mud logger examines cuttings communicate with the driller
- Case Histories (workshop)

DAY 4

- Fishing Operations
  - Twist Off Cases
  - Fracture of the drill pipe
  - Fracture of the threads joining the drill collars or the drill pipe
  - Overshot
  - Free point indicator
  - Reserve twist
  - Small explosive charge
  - Addition of jars in the fishing string
  - Washing over
  - Plugging the hole
  - Side tracked hole (dog-leg)
- Broken bit cases
  - Break away of one of the conical cutters & leg down the hole with all the bearing
  - Using magnet for fishing
  - Using hollow basket
  - Using explosive charge for too large pieces of metals
  - Using another bit
- Case Histories (workshop)

DAY 5

- Case Histories (workshop)
- HSE related issues
- General discussion and solving the client problems
REGISTRATION DETAILS

LAST NAME: __________________________________________
FIRST NAME: _________________________________________
DESIGNATION: _______________________________________
COMPANY: _________________________________________
ADDRESS: __________________________________________
CITY: _______________________________________________
COUNTRY: __________________________________________
TELEPHONE: _________________________________________
MOBILE: _____________________________________________
FAX: ________________________________________________
EMAIL: ______________________________________________

AUTHORISATION DETAILS

AUTHORISED BY: _______________________________________
DESIGNATION: _______________________________________
COMPANY: _________________________________________
ADDRESS: __________________________________________
CITY: _______________________________________________
COUNTRY: __________________________________________
TELEPHONE: _________________________________________
MOBILE: _____________________________________________
FAX: ________________________________________________
EMAIL: ______________________________________________

PAYMENT DETAILS

☐ Please invoice my company
☐ Cheque payable to GLOMACS
☐ Please invoice me

CERTIFICATION

Successful participants will receive GLOMACS’ Certificate of Completion

4 WAYS TO REGISTER

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TERMS AND CONDITIONS

• Fees – Each fee is inclusive of Documentation, Lunch and refreshments served during the entire seminar.
• Mode of Payment – The delegate has the option to pay the course fee directly or request to send an invoice to his/her company/sponsor. Credit card and cheque payments are both acceptable.
• Cancellation / Substitution – Request for seminar cancellation must be made in writing & received three (3) weeks prior to the seminar date. A US$ 250.00 processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due. although in such cases we would be happy to welcome a colleague who would substitute for you.
• Hotel Accommodation – is not included in the course fee. A reduced corporate rate and a limited number of rooms may be available for attendees wishing to stay at the hotel venue. Requests for hotel reservations should be made at least three (3) weeks prior to the commencement of the seminar. All hotel accommodation is strictly subject to availability and terms and conditions imposed by the hotel will apply.
• Attendance Certificate – a certificate of attendance will only be awarded to those delegates who successfully completed/attended the entire seminar including the awarding of applicable Continuing Professional Education Units/Hours.
• Force Majeure – any circumstances beyond the control of the Company may necessitate postponement, change of seminar venue or substitution of assigned Instructor. The Company reserves the right to exercise this clause and implement such amendments.
• Fair Access / Equal Opportunities – In the provision of its services as a world-class Training Provider, the Company is committed to provide fair access / equal opportunities throughout the delivery of its courses and assessment leading to the completion of training seminars, or 3rd party qualifications/certifications.