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Stuck Pipe and Fishing
TRAIN

Course Overview:
Stuck pipe is a common and costly occurrence in drilling operations, leading to significant non-productive time (NPT) and potential wellbore damage
Fishing is the process of retrieving stuck tools or objects from the wellbore, restoring drilling operations and safeguarding well integrity
This comprehensive 5-day professional training course will provide a thorough understanding of stuck pipe prevention, fishing techniques, and best practices for efficient and successful fishing operations

Course Objectives:
By the end of this course, participants will be able to:
1
Grasp the fundamental principles of stuck pipe and its causes, including mechanical stuck pipe, differential sticking, and packoff
2
Identify the factors contributing to stuck pipe, such as wellbore geometry, formation characteristics, and drilling fluid properties
3
Apply stuck pipe prevention strategies during well planning, drilling operations, and fluid management
4
Understand the different types of fishing tools and their applications, including fishing jars, overshots, and milling tools
5
Discuss the procedures for planning, executing, and evaluating fishing operations to retrieve stuck tools or objects
Course Agenda:
Day 1: Introduction to Stuck Pipe and Fishing
• Delve into the significance of stuck pipe in drilling operations and its impact on drilling performance, wellbore integrity, and project costs
• Explore the history of stuck pipe and the evolution of stuck pipe prevention and fishing techniques
• Discuss the regulatory framework and safety standards governing stuck pipe prevention and fishing operations
• Analyze the environmental considerations and regulations associated with stuck pipe incidents and fishing operations
Day 2: Stuck Pipe Prevention and Wellbore Stability
• Understand the fundamental principles of stuck pipe prevention and the importance of wellbore stability
• Identify the factors contributing to wellbore instability, such as formation stresses, differential sticking, and packoff
• Discuss techniques for wellbore stability control, including wellbore geometry optimization, fluid management strategies, and formation strengthening techniques
• Analyze the role of drilling fluid properties and rheology in stuck pipe prevention and wellbore stability
Day 3: Fishing Tools and Techniques
• Delve into the different types of fishing tools and their applications in various stuck pipe scenarios
• Discuss the functions and operation of fishing jars, overshots, milling tools, and other fishing tools
• Explore the selection criteria for fishing tools based on stuck pipe type, formation characteristics, and wellbore geometry
• Analyze the procedures for planning and executing fishing operations, including tool string design, operational parameters, and contingency planning
Day 4: Fishing Operations and Case Studies

• Understand the principles and techniques of fishing operations, including tool deployment, rotational and reciprocating actions, and fishing jars
• Discuss the challenges and considerations associated with fishing operations in different wellbore scenarios, such as directional wells, horizontal wells, and highly deviated wells
• Analyze case studies of successful fishing operations and identify key lessons learned for future prevention and fishing strategies
• Explore the use of advanced fishing tools and techniques, such as ultrasonic imaging, magnetic resonance imaging, and robotic fishing tools

Day 5: Fishing Best Practices and Continuous Improvement

• Discuss industry best practices for stuck pipe prevention, fishing operations, and wellbore stability management
• Explore the role of training, simulation, and experience in enhancing stuck pipe prevention and fishing success rates
• Analyze the importance of continuous improvement and incident investigation in preventing future stuck pipe events
• Discuss the application of emerging technologies in stuck pipe prevention and fishing, such as real-time monitoring, predictive analytics, and automated stuck pipe detection systems

Who Should Attend:

• Drilling engineers, wellsite supervisors, and derrickmen involved in drilling operations and stuck pipe prevention
• Well control technicians and supervisors responsible for stuck pipe mitigation, fishing operations, and wellbore integrity
• Fishing tool specialists and service company representatives focused on fishing tool design, application, and operational support
• Students and individuals interested in pursuing a career in drilling engineering, well control, or wellbore stability management

Course Benefits:

• Develop a comprehensive understanding of stuck pipe causes, prevention strategies, and fishing techniques
• Gain hands-on experience in fishing tool selection, operation, and case study analysis
• Enhance your ability to identify stuck pipe incidents, implement preventive measures, and conduct successful fishing operations
• Stay updated on the latest advancements in fishing technologies, best practices, and industry standards
• Network with other professionals from diverse backgrounds within the oil and gas industry