

College Well Control

College Well Control Course Outline Wild Well



PRIOR TO DAY 1

Pre-course study materials provided online at WildWell.com

DAY 1

Life Cycle of a Well, a Brief Overview

How planning affects the operation

Drilling characteristics

Completion, how is it different

Production, what it involves

Abandonment, what, when, and why

Downhole Concepts

Fluid circulation path in a well

Hydrostatic Pressure and Volume calculations

Relationship between Bottom Hole Pressure (BHP) and

Formation Pressure (FP)

How BHP/FP relationship changes with a kick in the well

Interpreting Differential Pressure with a kick in the well

Understanding gas migration, expansion, and pressure relationships

Relating gas expansion and pressure to FP, BHP, and Differential

Pressure (Boyles Law)

U-Tube

Barriers and Equipment

Definition of barriers

Types of barriers

Accumulators, BOP, and pressure control equipment

Other equipment used to work wells

Completion and production equipment

DAY 2

Causes, Detection, and Mitigation of Kicks and Blowouts

Kicks and blowouts defined

Prevention of kicks

Causes of kicks

Warning signs and detection of kicks

Mitigation of kicks – shut in procedures and practices

Crew Responsibilities and Drills

Responsibilities defined

Response actions in the event of a kick

Reasons for practice drills

Types of crew practice drills

Kick Resolution and Well Control Methods

Driller's Method

Wait & Weight Method

Non-Circulation Method of well control

Unconventional well control methods

Regulations

Regulating agencies

How regulations affect the industry

Course Exam

Wild Well certificate issued upon successful completion

16 HOURS
