



Practical Solids Control School

Course Description

Efficient Solids Control means LOWER DRILLING COSTS. This intensive four-day school covers the basics of solids removal from drilling fluids. Economics as related to mud costs and penetration rates are stressed. Practical and technical material is presented in non-technical terminology making this course ideal for Drilling Foremen, Drilling Technologists, Drilling Engineers, Mud Engineers, Drilling Supervisors, Drilling Superintendents, or anyone involved in drilling or drilling operations.

Efficient Solids Control produces the following potential benefits:

- Increased Rate of Penetration (ROP)
- Increased Bit Life and Reduced Bit Consumption
- Reduced Mud Costs and Waste Disposal Costs
- Fewer Hole Problems
- Reduced Abrasion and Pump Wear
- Compliance with Environmental Cuttings and Discharge Guidelines

Students who have successfully mastered the Practical Solids Control Course will receive a Certificate of Completion and will have a thorough comprehension of the following material:

- The Basics of Solids Control
- The Economics and Benefits of Good Solids Control
- How Solids Control Equipment Functions
- Proper and Efficient Rigup of Equipment Versus Improper Rigup
- Guidelines for Evaluation of Students' Own Solids Control Systems
- Efficient and Effective Management of Solids Control Reduces Drilling Costs

INSTRUCTOR: W. S. (Bill) Cagle

President of Cagle Oilfield Services, Inc., Tulsa, Oklahoma; 11½ yrs. with Amoco in Production, Drilling, and Drilling Research (1966-1978); 4½ yrs. in Mud & Solids Control Research at Amoco Research; General Manager of Derrick Equipment Sales & Rental Co.'s for 2½ yrs. (1978-1980); Vice-President of Derrick Equipment Co. for 1 yr. (1980-1981); Past Chairman of API Subcommittee on Formation Pressures & Fracture Gradients; Past Vice-Chairman of IADC Mud Equipment Committee; Member of SPE of AIME; B.S. Petroleum Engineering, M.S. Mechanical Engineering, Mississippi State University.

Course Outline

- Day 1
 - Initial Test
 - Introduction and Basics
 - Mud
 - Homework: Exercise I
- Day 2
 - Review and Homework
 - Shale Shakers
 - Centrifugal Pumps and Line Sizing
 - Homework: Exercises II and III and Pump Sizing Problem
- Day 3
 - Review and Homework
 - Degassers
 - Hydrocyclones
 - Mud Cleaners
 - Homework: Exercise IV
- Day 4
 - Review and Homework
 - Centrifuges
 - Manifolding
 - Stirring and Mixing
 - Mud System Layouts
 - Overall Review
 - Final Test

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| SCHEDULED DATES | PLACE | FEE | LOCATION |
|--|--|---------|-------------|
| May 7-10, 2018 (Monday-Thursday) | Murchison Drilling Schools 19407 Park Row Dr. Suite 140 Houston, TX 77084 To attend, register with Cagle. | \$2,350 | Houston, TX |
| July 9-12, 2018 (Monday-Thursday) | Murchison Drilling Schools 19407 Park Row Dr. Suite 140 Houston, TX 77084 To attend, register with Cagle. | \$2,350 | Houston, TX |
| November 26-29, 2018 (Monday-Thursday) | Apache Corporation 2000 Post Oak Boulevard Suite 100 Houston, TX 77056-4400 To attend, register with Cagle. | \$2,350 | Houston, TX |

We offer 1, 2, 3, 4, and 5-day in-house Practical Solids Control Courses. Please contact Cagle for available dates, costs, and other details.

This course requires extensive note taking and homework. Each student should bring notepads and a calculator.

Practical Solids Control Reservation Form

Name _____ Title _____ Email _____ Dates _____

Company _____ Contact Person _____

Address _____ Telephone _____ Fax _____

City _____ State _____ ZIP Code _____ Email _____

SIGN UP ONLINE AT CAGLEOILFIELD.COM OR MAKE CHECK PAYABLE TO & MAIL ALL CORRESPONDENCE TO:

Cagle Oilfield Services, Inc. · P.O. BOX 33165 · TULSA, OK 74153