



# 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

# Practical Solids Control School



| SCHEDULED DATES                                | PLACE  | FEE     | LOCATION               |
|--|--|---------|------------------------|
| <b>May 22-25, 2017</b><br>(Monday-Thursday)    | Murchison Drilling Schools, Inc.<br>19407 Park Row<br>Suite 140<br>Houston, TX 77084<br><b>To attend, register with Cagle.</b> | \$2,350 | Houston, TX            |
| <b>July 24-27, 2017</b><br>(Monday-Thursday)   | Murchison Drilling Schools, Inc.<br>19407 Park Row<br>Suite 140<br>Houston, TX 77084<br><b>To attend, register with Cagle.</b> | \$2,350 | Houston, TX            |
| <b>November 6-9, 2017</b><br>(Monday-Thursday) | In-Depth Drilling Solutions, Ltd.<br>69 Orchard Garden<br>Chaguanas, Trinidad<br><b>To attend, register with Cagle.</b>        | \$2,350 | Chaguanas,<br>Trinidad |

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.**

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## 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](http://CAGLEOILFIELD.COM) OR MAKE CHECK PAYABLE TO & MAIL ALL CORRESPONDENCE TO:**

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