

Course Outline

SAND CONTROL TECHNOLOGY

by

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Course Description

Sand causes a wide variety of costly problems when oil and gas are produced from unconsolidated reservoirs. The most costly problem is usually the loss of production resulting from formation damage caused by poorly planned and/or executed sand control applications. This course will identify the parameters that must be considered when selecting the sand control technique to be used. Examples, problems, and case histories will be examined to illustrate key points. Sand control failures will be used to illustrate the types of problems that can lead to early well failures. The course will also teach how to perform quality control checks during the sand control application to help insure successful wells. Because Sand Control in horizontal wells often proves to be short-lived when incorrectly applied, examples and class problems will focus on correctly choosing successful completion techniques for horizontal wells. Several new promising sand control technologies have been introduced in the last few years, such as expandable screens of several different types. The proper application of these new technologies will also be covered. Attendees will leave this course with a thorough understanding of what is necessary to design and implement cost-effective sand control in both producing and injection wells.

Designed For

Drilling, completion, production, and research engineers; field

supervisors and production foremen; technical personnel who supply services and equipment

You will learn

Participants will learn how to:

How to Determine the causes of sand production

Determine the need for sand control

Select the best sand control method

Prepare the well for the proper application of sand control

Apply best practices to ensure successful sand control completions

Conduct successful frac-packs

Evaluate sand control performance

Minimize production losses

Evaluate new technologies for proper applications

Course Content

Sand control techniques

Radial flow and formation damage

Causes and effects of sand production

Predicting sand production

Gravel pack design

Slotted liners and wire wrapped screens

Gravel pack completion equipment and service tools

Well preparation for gravel packing

Perforating for gravel placement techniques
Perforation prepacking and enhanced prepacking
Frac packing
Open hole gravel packing
Expandable screens
Gravel pack performance
Horizontal well completions

About Instructor

Dr.Ing. Bonar Tua Halomoan Marbun is an Associate Professor and Head of the Petroleum Engineering Study Program at Institut Teknologi Bandung.

Dr. Bonar Marbun received a Petroleum Engineering Bachelor's degree in 1999 from Bandung Institute of Technology. He then received Dr. Ing. degree from the Clausthal University of Technology in Germany in 2006.

Dr. Bonar Marbun is a member of Oil and Gas Independent Team Safety Control of the Ministry of Energy and Mineral Resources of Indonesia.

For more information about the course, please visit lditraining.com or contact LDI Training at HYPERLINK "mailto:lditrain@indo.net.id" lditrain@indo.net.id

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