

Well Cementing Foundation Training Course

Introduction

The Aubin Foundation Training Course in Well Cementing provides a broad base of understanding of the cementing process, rather than merely concentrating on the operation in isolation. Cement slurry is arguably the most significant fluid that is ever pumped into a well, so the significance of a proper understanding of the process cannot be over-estimated.

A successful cementing operation depends on the consideration of a wide variety of physical & chemical factors, however the construction of a “cementable wellbore” is frequently overlooked, compromising the success of the cementing operation. It is helpful to consider cementing as part of an overall process, rather than an end in itself.



Cementing Course Contents

- É Introduction
- É Cement Background
- É Cement Operations
- É Slurry Parameters
- É Well Factors
- É Well Casing Program
- É Remedial Cementing
- É Fluid Mechanics
- É Cement Placement
- É Advanced Job Design
- É Software
- É Job Evaluation

Cement Chemistry & Additives Section

- É Cement Manufacture & Raw Materials
- É Cement Chemistry & Hydration
- É Additive Types & Functions
- É Cement & Additive Deployment

The training also contains a section dedicated to the requirements of cement slurries, basic cement chemistry, modifications to suit operational requirements, and additive function, and product selection. This Cementing Chemistry & Additive element of the course can also be offered as a standalone course.

By taking this philosophy with the Well Cementing Foundation Course, a deeper and better understanding of the cementing process, and its importance in the course of well construction, is obtained. It is believed that this approach is often lacking in many other available courses.

Target Audience & Course Material

The Course is applicable to a wide audience of people from different disciplines, including drilling engineers, cement engineers and technicians involved in well construction and workover activities. A familiarity with drilling operations, and an engineering or scientific background, would be useful, but not essential. The course is based around classroom sessions with handout notes on completion. Depending on location, visits to laboratory facilities or cement service bases may be included.

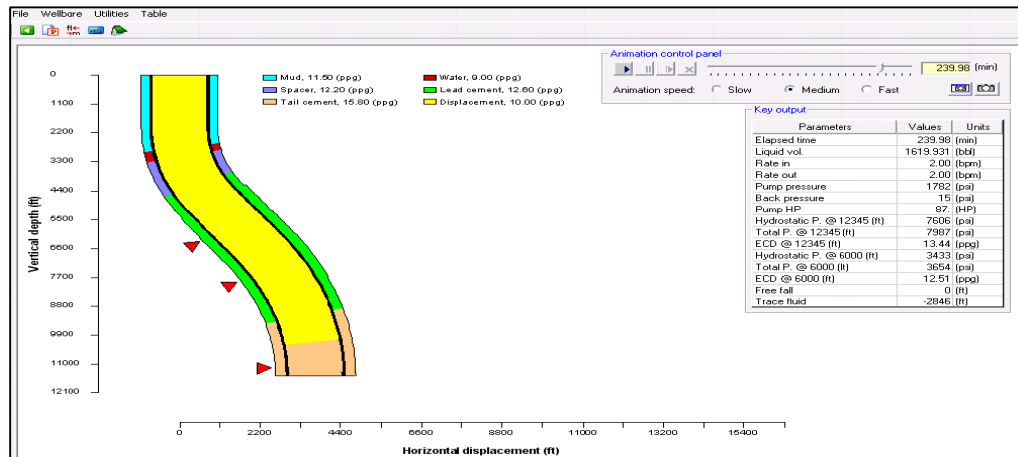
Course Description

Although cement-like materials have been around for thousands of years, it is only in the last 200 years that it has seen industrial-scale use, and 100 years in oil well use. The Aubin Well Cementing Foundation Course covers all the major methods and techniques that have developed over that time and gives the course delegates a solid understanding in the technology. In addition, more advanced techniques including the importance of proper slurry placement and mud removal are described. The assistance offered by modern well cementing software is recognised, and examples given.

The Course has been developed by Neil Johnston, who has over 20 years experience in cementing, working for 2 of the major well services companies, Schlumberger & BJ Services, before joining Aubin in 2009. Neil has worked in several worldwide locations, ranging from laboratory R&D to well-site engineering & operations, particularly in HTHP and geothermal applications. He holds a number of patents in well cementing and has introduced a number of novel materials and methods. He believes a common deficiency in many training courses is their narrow focus on the cementing operation; this course is intended to provide a broader and deeper foundation.



This is a Foundation course, but not an elementary one; many different aspects are covered to an



appreciable depth. If more advanced training is required in any individual aspects it can be provided on request. Please contact Aubin for further details.