

Appendix D | Chevron Laboratory Report Cover Letter



Craig Gardner
Team Leader - Cementing

Energy Technology Company
Drilling and Completions Department
3901 Briarpark
Houston, TX 77042
Tel 713.954.6154
Fax 713.954.6177
craig.gardner@chevron.com

Sambhav N. "Sam" Sankar
Deputy Chief Counsel
National Commission on the BP Deepwater Horizon
Oil Spill and Offshore Drilling
One Thomas Circle, 4th Floor
Washington DC 20005

October 26, 2010

**NATIONAL COMMISSION ON THE
BP DEEPWATER HORIZON OIL SPILL AND OFFSHORE DRILLING
CEMENT TESTING RESULTS**

MR. SAMBHAV N. "SAM" SANKAR

This report summarizes the results of the testing conducted in the cementing laboratory at Chevron's Briarpark facility at the request of the National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling.

We conducted these tests using samples of cement and additives supplied by Halliburton and sent to the Chevron laboratory at the request of the Commission. To our knowledge, these materials were supplied by Halliburton as representative of materials used on the Deepwater Horizon but are neither bulk plant samples nor rig samples from the actual job.

The mud sample used in the contamination testing described in this report was supplied by MI Swaco at the Commission's request. It is a sample of drilling fluid from an actual drilling operation (i.e. not laboratory-prepared nor taken from a freshly-built mud in a liquid mud plant). MI Swaco supplied an analysis (mud check) with the sample, and a similar suite of tests were run in the Chevron drilling fluids laboratory to confirm the fluid characteristics. Both the MI Swaco results and the Chevron results compare reasonably well with the field mud check #79 dated April 19, 2010. Copies of the mud reports are contained in the Appendix.

This document may contain confidential information and is intended only for the use of the parties to whom it is addressed. If you are not an intended recipient, you are hereby notified that any disclosure, copying, distribution or use of any information in this document is strictly prohibited. If you have received this document in error, please notify the sender immediately at the telephone number indicated above.

October 26, 2010
Page 2

The testing was based on the Halliburton laboratory report dated April 12, 2010 and contained in Appendix J of the BP report *Deepwater Horizon Accident Investigation Report, September 8, 2010*, Appendix J. Most of the tests were conducted using multiple protocols. API and ISO cementing standards are, for the most part, technically identical standards which allow latitude in test procedures. The Halliburton report does not contain sufficient information to determine the exact test protocol used in the Halliburton lab in all cases. Halliburton elected not to provide additional information clarifying its testing protocols that was requested through the Commission. Therefore, a range of test procedures was selected to encompass a variety of test conditions.

Many of the test results were in reasonable agreement with those reported by Halliburton. However, we were unable to generate stable foam with any of the tests described in Section 9 of this report.



Craig Gardner