

**RE: Halliburton Cement Evaluation - Message (Plain Text)**

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Extra line breaks in this message were removed.

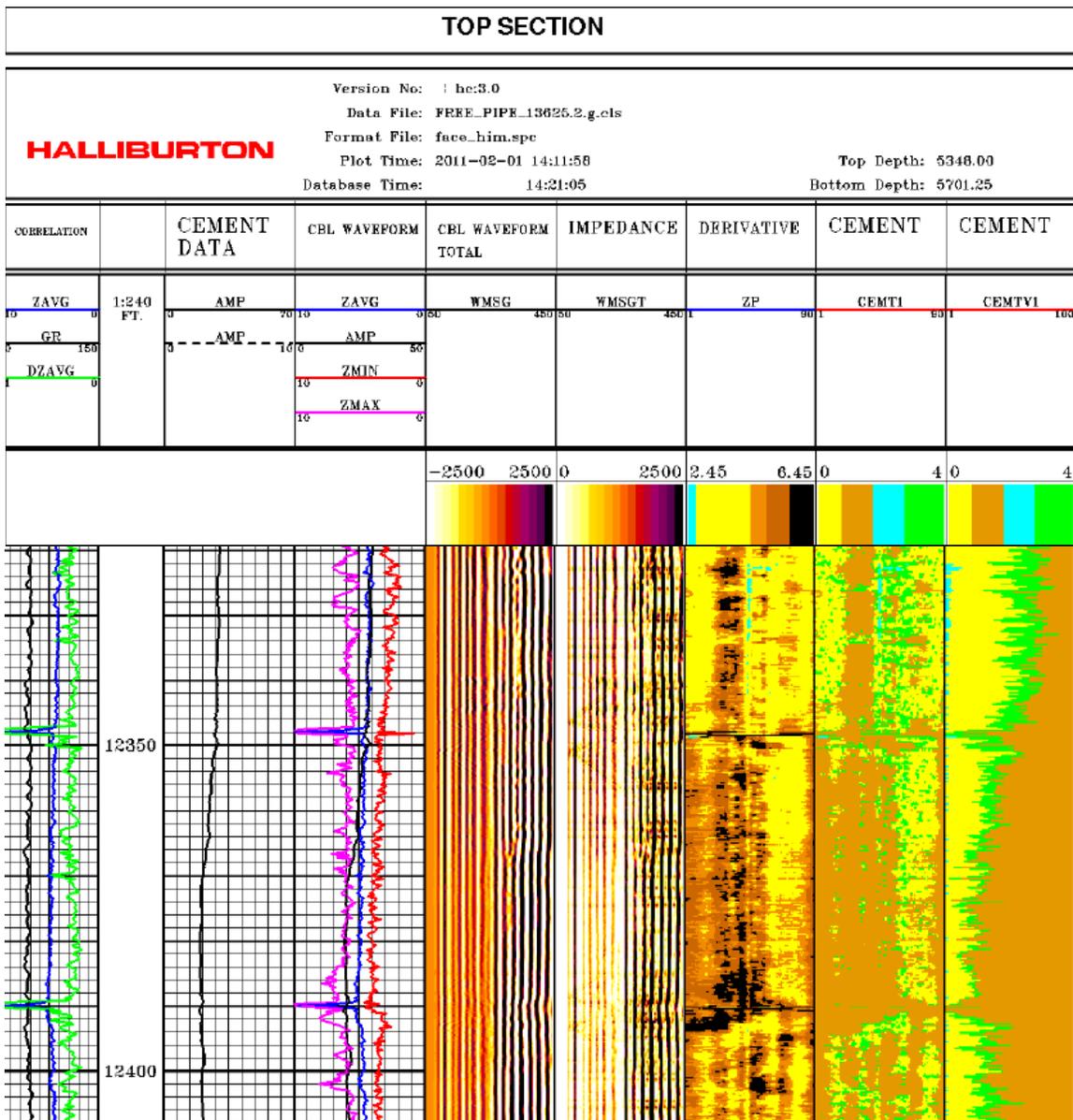
From: Gary Frisch [Gary.Frisch@Halliburton.com]  
 To: Lasley, Barbara M; Wydrinski, Ray  
 Cc:  
 Subject: RE: Halliburton Cement Evaluation

Sent: Tue 2/1/2011 2:36 PM

Attachments: ACE\_BP\_HIM.2.pdf (4 MB)

Here is the processing on the 13 5/8 using the High Impedance Mud processing that I developed for CaCo3. It appears that the top of cement is around 12370. There will be another PDF file sent due to size limits. I will begin putting together a report.

Gary



# Schlumberger

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February 1, 2011

To: Ray Wydrinski, Petrophysicist, BP  
From: Abe Vereide, Log Analyst, Schlumberger  
Cc: Lou Sabbagh, BP Wireline Coordinator, Schlumberger  
Re: Cement evaluation summary for OCS G 32306 002 ST00BP00

## Objective

The well OCS G 32306 002 ST00BP00, which was drilled for BP, was logged in three different casing sizes in order to verify the presence of cement in the annulus. The 18" casing was logged on June 21, 2010 with the Sonic Scanner CBL tool. The 13<sup>5/8</sup>" casing was logged on July 6, 2010 with a combination of the Sonic Scanner and Ultrasonic Imaging Tool. The 11<sup>7/8</sup>" casing was logged on July 17, 2010 with a combination of the Sonic Scanner and Ultrasonic Imaging Tool.

### Results – 18" Casing – June 21, 2010

Top of cement showing continuous cement placement azimuthally on the eight radial receivers was seen in the 18" casing at 8,760'. However cement in the annulus was observed to continue past 8,700'.

### Results – 13<sup>5/8</sup>" Casing – July 6, 2010

Top of good cement was seen in the 13<sup>5/8</sup>" at a depth of 13,085'. There is indication of cement placement above 13,085', but nothing that would clearly provide isolation.

### Results – 11<sup>7/8</sup>" Casing – July 17, 2010

Cement was seen in the 11<sup>7/8</sup>" casing up to 13,780'. The top of cement which appears to provide isolation is at 13,835'. Cement quality appears better at the high side of the casing than the low side in many intervals, probably due to both the tool eccentricity in the casing and the casing eccentricity in the borehole. Overall however, cement placement is good below 13,835'.

BP OCS-G 32306 002 ST00BP00