

From: McLean, Philip
Sent: Wednesday, September 29, 2010 2:43 PM
To: Saucier, Michael
Subject: RE: ENSCO 8501 BOP digital BOP test

Mike,

This does appear to be true. If there are wave motion that causes the rig to move. It will not allow the operator to ever get the Bench Mark test.

Phil

From: Saucier, Michael
Sent: Wednesday, September 29, 2010 1:22 PM
To: Trocquet, David; Trosclair, Troy; Patton, Frank
Cc: McLean, Philip; Conner, George M.; Labiche, Lance
Subject: RE: ENSCO 8501 BOP digital BOP test

So basically with the sea conditions as described the digital instruments were showing a failed test where the conventional charts showed a good test?

Michael J. Saucier
Regional Supervisor
Field Operations
Gulf of Mexico Region
U.S. Department of the Interior
Bureau of Ocean Energy Management, Regulation and Enforcement
(504)736-2503

From: Trocquet, David
Sent: Tuesday, September 28, 2010 4:54 PM
To: Trosclair, Troy; Patton, Frank
Cc: Saucier, Michael; McLean, Philip; Conner, George M.; Labiche, Lance
Subject: FW: ENSCO 8501 BOP digital BOP test

Troy,

As we discussed, the failed digital BOP test below occurred the last time that the Ensco 8501 tested BOP's. We were just notified that the next test will be tomorrow (the rig has since moved to a new well – an offset and similar well to Macondo). I have sent Joel Moore and Bob Neal to witness the test.

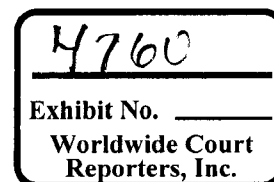
Frank,

Please contact Noble Energy (Tim Sargent) and set up a meeting to discuss the failed digital BOP test of 9/1/10.

David J Trocquet
New Orleans District Manager
US Dept of the Interior
Bureau of Ocean Energy Management, Regulation and Enforcement
Gulf of Mexico Region
Office of Field Operations
504-734-6742

From: Moore, Joel K.
Sent: Tuesday, September 28, 2010 12:48 PM

Highly Confidential



IMS176-077756

To: McLean, Philip; Trocquet, David
Subject: ENSCO 8501 BOP digital BOP test

I just thought I'd pass along this information regarding the digital BOP test that we attempted to witness on September 1st. We were there to witness the test of the proposed digital testing for the BOP but we ran into problems. It took a little more time than I intended because I had to extrapolate and input the raw data from the rig movement into an excel spreadsheet. The raw data was scrambled and getting accurate headings was particularly challenging. Regardless, here's the information.

On September 1st Justin and I arrived onboard the ENSCO 8501 and upon arrival we noticed the seas were a little high but in our opinion not excessively so high as to prohibit operations. Approximately 1640hrs we commenced the BOP test with typical charts running in the foreground and digital test from IPT running in the background. Immediately on the first test we could not establish a benchmark on the digital test. Several attempts were made to establish a benchmark and for a couple of minutes the digital ran fine but the benchmark attempts were redlined (failed) before the allotted time could elapse. After several futile attempts a decision was made to continue the test with the typical charts while the IPT rep. troubleshooted the issue at hand. At some point it was determined that the seas were impacting the digital test results.

I took the liberty to ask for the rig data regarding the pitching and heaving of the rig so that it could be mapped over and compared to the test chart that IPT provided. That file is named "EnSCO 8501 BOP TEST Vessel movement.xls". It is only a small snapshot of time but hopefully it will be an indication of how much pitching and heaving caused the digital benchmark to fail. I was going to send you a copy of the raw data from the rig movement but the file is too large to e-mail but I will send you a copy of the IPT report. If you need the raw data from the rig let me know and I'll provide it for you since I have it on a thumb drive.

I did suggest to the IPT rep. that they may need to consider writing an algorithm in their programming to dampen the effects of high sea states or to put a time delay of some sort into the programming that will help differentiate sea state pitching and heaving from actual pressure changes.

If you have any questions please feel free to ask.

Sincerely,
Joel