

From: Robinson, Steve W (NAX)
Sent: Mon Jul 19 18:11:58 2004
To: Ward, Martin D; Jackson, Curtis W (NAX)
Cc: Skelton, Jake
Subject: RE: Dispensation on BOP Stack
Importance: Normal

Marty and I ran through some numbers quickly on this and the cost benefit is in excess of \$1mm conservatively on Stones alone. It's certainly large enough to warrant further investigation. There's obviously detail to work through - issues like testing the connection below the stack that normally gets tested when a test plug is used is one and of course, the risk mitigation/contingency planning of having 2 workable VBR's versus 3.

Steve

-----Original Message-----

From: Ward, Martin D
Sent: Monday, July 19, 2004 12:08 PM
To: Jackson, Curtis W (NAX)
Cc: Skelton, Jake; Robinson, Steve W (NAX)
Subject: Dispensation on BOP Stack

Curtis/Jake/Steve,

I have been looking at the option of converting the lower ram on the Horizon stack to a "test" ram. In talking with John Keeton the conversion is possible and will cost roughly \$100,000 and will require approximately 2 days for the conversion (which we should be able to do out of the critical path). The \$100,000 will easily be made back in time savings the first time we don't have to run a test plug. Therefore the biggest hurdle I see is BP policy which states:

the minimum BOP required for wells where a wellhead pressure of over 5000 psi is possible the BOP will be configured as follows:

- Two annular preventers, one of which is retrievable on the lower marine riser package
- four ram type preventers (one of these to be a sealing shear ram)

If we convert the bottom ram to a test ram we will "legally" only have three ram type preventers. Not knowing the history or background to the four ram policy my question to you is; - "is this a no-go situation or would you and the organization be willing to sign a dispensation to this policy"?

On a side note John Keeton is checking with Cameron on the delivery time to get the required equipment for the upgrades. His comment is, based on past experience with Cameron, the sooner we can let him know we want to move down this path the better chance we will have of actually getting the upgrade equipment.

Also, based on a response from the Horizon subsea engineer the Horizon has never failed a ram test. I have asked Doug Derr to see if they can dig a little deeper to see if there has been any situation in which we had to go to the MMS to get an exception for having any failed piece of equipment that resulted in us losing a ram function.

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