

From: LeBleu, John B
Sent: Thu Apr 15 21:42:37 2010
To: Mcfaddin, John (UNKNOWN BUSINESS PARTNER)
Cc: Zabala, Honorio
Subject: RE: MI Swaco NCR 003 - Pill Problem
Importance: Normal

The M-I SWACO Form-a-set pill is a complicated, time and temperature dependant lost circulation pill that requires close attention to details to mix and apply correctly. To help address this issue, M-I SWACO has developed FASware software to recommend the correct mix of products and the correct concentration of each product needed to mix and apply the pill correctly.

In the Macondo incident on February 19th 2010, the FASware software recommended too much bio polymer (for barite suspension) and the generated mixing procedure also did not include information as to the size of sack recommended. The only instruction generated by the software was to mix so many sacks of the bio polymer with no reference to the needed concentration or the size of sack to mix.

This caused the senior mud engineer (Leo Linder) to (by his own admission to me the next morning) add too much bio polymer to the pill (2 ppb), making the pill too thick. At this stage he could have called his supervisor and discussed options but did not. The next morning the junior mud engineer misinterpreted the FASware generated instructions to "mix the XL activator (cross linking agent) directly to the pill" to mean cut the sacks on top of the pit and try to mix it in by dropping the powder on top of an already too thick pill (instead of using the mud mixing hopper). Again M-I SWACO could have stopped the job and called for support and did not.

Instead M-I SWACO allowed BP to pump the pill with mud losses and rig time needed to put it in place, knowing the pill would have little chance of working.

I have challenged M-I SWACO to re-evaluate their FASware software. Asking them to review the bio polymer recommended by the software, to have the software generate as a minimum not only the number of sacks but the size of the sacks recommended. I have also recommended that they review the wording concerning the addition of the XL activator to make it clear mixing through the hopper is necessary.

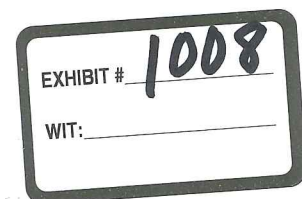
For the second Form-a-set pill mixed we had the M-I SWACO field service lab in Houston pilot test the FASware formulation and the recommended bio polymer concentration was revised with success. We have also pumped another Form-a-set pill using the same Lab pilot test routine with success.

I will get the supporting cost data together and other supporting documentation and send it to you.

Let me know if you need anything else,

John

John LeBleu
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From: Mcfaddin, John (UNKNOWN BUSINESS PARTNER)

Sent: Thursday, April 15, 2010 9:57 AM

To: LeBleu, John B

Cc: Zabala, Honorio

Subject: MI Swaco NCR 003 - Pill Problem

John,

Can you send what you have so far on this second MI Swaco issue. As you get additional information on costs, we can update the records. We want to load this is to ESQ like the previous issue because it starts a tracking clock for getting the issue resolved.

Best regards,

John M. McFadden

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