

From: LeBleu, John B
Sent: Tue Apr 06 17:05:20 2010
To: Walz, Gregory S
Cc: Daigle, Keith G; Diaz, Andres; Chester, Doug K; Guide, John; Alberty, Mark W; JZ Energy Services
Subject: Re: Loss Circulation Product EMI 1820 (MI-Swaco)
Importance: Normal

Greg,

In our current case we are not certain where the losses are and also not certain what the characterization of the losses is (shale, sand, verticle fracture, horizontal fracture, leaking liner lap, etc.). As such my opinion is it is questionable whether on not compressive strength will solve our problems. Also in the discussion Andres and I had with Mark Aston and Bryan Chambers we decided to wait on more results of the testing of the product. One concern Andres has that I think is very valid is how the interaction with SBM will effect the performance of the pill.

I am also confident that we can effect a cure with existing proven technology such as M-I's tand pill or EZ-Squeeze/Swell LCM.

Sent from my iPhone

On Apr 6, 2010, at 11:06 AM, "Walz, Gregory S" <Gregory.Walz@bp.com> wrote:

Thanks Keith,

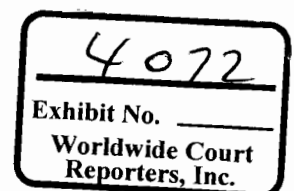
Andres - Where are we with the pricing agreement? How fast can we resolve this? We may have an immediate need for it on the Horizon.

Gregg

Drilling Engineering Team Leader
GoM Drilling & Completions
Office: 281-366-0281
Cell: 281-543-8634
E-Mail: Gregory.Walz@bp.com

From: Daigle, Keith G
Sent: Tuesday, April 06, 2010 11:00 AM
To: Walz, Gregory S
Subject: FW: Loss Circulation Product EMI 1820 (MI-Swaco)

Timing is everything eh.



From: Hine, Andy J

Sent: Tuesday, April 06, 2010 10:40 AM

To: Blome, Greg R.; Swanson, Bruce W; Eaton, Graham (Contractor); Frisby, Douglas J; Hay, Brian (SUN); Jobson, Nigel; Naranjo, Oscar; Narayanasamy, Raja; Petmecky, Stephan; Rhodes, Matthew; Rheaume, Gregory T; Robertson, Nicholas; Sallam, Youssef; Siabatto, J. Andres; Sigmundstad, Tommy; Sims, David C; Varco, Martin; Stanley, Mark J; Walker, Hamish; Williams, John; Aston, Mark S; Last, Nigel (Sunbury); De Jong, Hendrik Jan; G D&C Operations Network

Cc: Christopher, Tom; Yee, Dan; Sigurdson, Scott; Thierens, Harry H; Zanghi, Mike; Haden, Steven K; G Global Fluids Network

Subject: Loss Circulation Product EMI 1820 (MI-Swaco)

One action from last week's E&A Drilling Leadership forum was to increase the awareness of EMI 1820, an MI-Swaco experimental lost circulation product in the D&C community, see below.

This is a high fluid loss product with very good compressive strengths - 3500psi UCS from lab tests. It is similar to EZsqueeze but mixes much easier, you do not need to know fracture size, (material is one particle size), and does not set up in the wellbore.

Product is still in experimental stage but plan to be tested in GoM. Potential for Libya exploration wells with high losses expected in carbonates.

Andy

Andy Hine

Project Manager E&A/MP Assurance

Office: +44 (0) 1932 767684

Mobile : +44 (0) 7850 694199

[Click: D&C Technology website](#)

BP Exploration Operating Company Limited

Registered in England & Wales. Company Number: 305943

Registered Office: Chertsey Road, Sunbury-on-Thames, Middlesex, TW16 7LN

From: Varco, Martin

Sent: 02 April 2010 15:54

To: Hine, Andy J

Cc: Aston, Mark S

Subject: Fw: Q: SORAC pricing for EMI 1820 (MI-Swaco)

Andy

Follow up on the action I had re: SORAC pricing for the new LCM material.

Martin Varco
Manager, D&C Strategic Contracting

Office: +44 1932 767015
Mobile : +44 7775 705855

From: Malegaonkar, Abhijit
To: Varco, Martin; Chambers, Bryan D
Cc: Shetty, Rathnakar
Sent: Fri Apr 02 14:38:35 2010
Subject: RE: Q: SORAC pricing for EMI 1820 (MI-Swaco)

Martin-

Few weeks ago, there was a meeting between Mark, Bryan and Andres Diaz (GoM Fluids Engineer) about the same material. It was agreed to try out this material in GoM. Andreas and I have an action item to include this in GoM SORAC after agreeing on a value contribution matrix with MI. We are planning to meet with MI next week on this matter.

I was unaware of the interest from Libya. I will work with Muhammad Mansour (Drilling Engineer) /Chris Frisk (PSCM) from Libya and facilitate the usage of the same as soon as possible. Based on value contribution matrix and GoM pricing, I hope to get material to Libya as soon as possible.

I shall keep you posted on the progress.

Thanks.
Abhijit

From: Varco, Martin
Sent: Friday, April 02, 2010 8:05 AM
To: Chambers, Bryan D; Malegaonkar, Abhijit
Subject: Q: SORAC pricing for EMI 1820 (MI-Swaco)
Bryan, Abhijit

I was at the E&A Forum meeting yesterday and Mark Aston gave an update on some of the technology items that he has been working on re: LCM. One of the showcases was the results of the tests done with MI-Swaco on their new product - EMI 1820. There as a lot of interest on this product, especially from Libya and the question that we weren't able to answer - and which I took away to action - was is this new product included in our global SORAC's and if not what is the expected timeline for having SORAC prices for this product.

Thanks.
Regards,
Martin