From: Morel, Brian P [redacted]
Sent: Thursday, April 15, 2010 4:00 PM
To: Jesse Gagliano; Hafle, Mark E; Cocales, Brett W; Walz, Gregory S
Subject: RE: OptiCem Report
Attachments: image002.jpg; image003.jpg

We have 6 centralizers, we can run them in a row, spread out, or any combinations of the two. It's a vertical hole so hopefully the pipe stays centralized due to gravity. As far as changes, it's too late to get any more product to the rig, our only options is to rearrange placement of these centralizers. Please see attached diagram for my recommendation.

	17788.89	46.93	
		3.72	centralizer
	17835.82	46	
	17881.82	46	
	17927.82	45.85	
		3.73	centralizer
	17973.67	46	
	18019.67	46	
	18065.67	47.23	
		3.68	centralizer
	18110.76	2.14	Float Collar
	18112.9	47.59	
		3.74	centralizer
	18160.49	45	
	18205.49	47.59	
		3.74	centralizer
	18253.08	46.92	
		3.62	centralizer
	18297.02	2.98	Reamer Shoe
Casing Shoe	18300		

Brian

From: Jesse Gagliano [redacted]
Sent: Thursday, April 15, 2010 3:35 PM

To: Hafle, Mark E; Morel, Brian P; Cocales, Brett W; Walz, Gregory S
Subject: OptiCem Report

Attached is the updated OptiCem report & lab test. The items that I updated in OptiCem are below; everything else is the same from the one we ran together yesterday.

Imported caliper data
Imported directional data
Entered in centralizer info
Updated Cement RPM data from lab test

Updating the above info now shows the cement channeling and the ECD going up as a result of the channeling. I'm going to run a few scenarios to see if adding more centralizers will help us or not.

Below is what the standoff looks like with the current centralizer plan. Let me know if you have any questions. Thanks!!

Halliburton Energy Services
OptiCem v6.4.8
Centralizer Calculations Report
This report was created 04/15/2010 15:31:57.
GetCentNumber = 10

n	Spacing ft	MD ft	Dev. °	Az. °	Stand. %	Rest. Force lbf	Tension lbf	Centralizer
10	48.0	18300.0	0.9	219.9	80.73	11	0	B 7.000x8.500
		18276.0			77.23			
9	45.0	18252.0	0.9	219.9	80.31	21	1356	B 7.000x8.500
		18229.5			79.77			
8	45.0	18207.0	0.9	219.9	80.33	20	2627	B 7.000x8.500
		18184.5			79.80			
7	45.0	18162.0	0.9	219.9	91.47	20	3899	B 7.000x8.500
		18139.5			90.86			
6	48.0	18117.0	0.9	219.9	91.44	21	5170	B 7.000x8.500
		18093.0			90.66			
5	84.0	18069.0	0.9	219.9	63.91	27	6526	B 7.000x8.500
		18027.0			59.77			
4	45.0	17985.0	0.9	219.9	45.09	25	8590	B 7.000x8.500
		17962.5			44.83			
3	84.0	17940.0	0.9	219.9	45.09	25	9696	B 7.000x8.500
		17898.0			42.29			
2	45.0	17856.0	0.9	219.9	43.95	25	11760	B 7.000x8.500
		17833.5			43.70			
1	17811.0	17811.0	0.9	219.9	13.98	3399	12865	B 7.000x8.500
		17810.0			13.98			
		17790.0			50.00			
	0.0	0.0			50.00			

Jesse Gagliano
Halliburton Energy Services
Account Representative - Cementing
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Cell - [redacted]
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E-mail - [redacted]