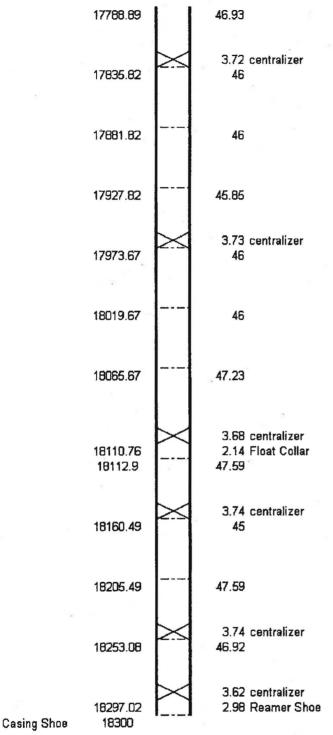
From: Sent: To: Subject: Attachments: Morel, Brian P Thursday, April 15, 2010 4:00 PM Jesse Gagliano; Hafle, Mark E; Cocales, Brett W; Walz, Gregory S RE: OptiCem Report image002.jpg; image003.jpg

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.

HAL_0010648



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Brian

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

Business Confidential

HAL_0010649

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											
							Rest.				
	n	Spacing ft	MD ft	Dev:	Az.	Stand. %	Force lbf	Tension	CE	entralizer	
	10	48.0	18300.0	0.9	219.9	80.73	11	0	8	7.000x8.500	
			18276.0			77.23	43.4	415 200 200 500			
	9	45.0	18252.0	0.9	219.9		21	1356	В	7.000x8.500	
	_		18229.5			79.77			_		
	8	45.0	18207.0	0.9	219.9		20	2627	B	7.000x8.500	
	7	45.0	18184.5	0.0	710 0	79.80	20	2000	-	7.000x8.500	
	1	45.0	18162.0 18139.5	0.9	219.9	91.47 90.86	20	2023	D	7.00028.300	
	6	48.0	18117.0	ΛQ	219.9		21	5170	B	7.000x8.500	
	0	40.0	18093.0	V. 2	27313	90.66	23	271.4	5		
	5	84.0	18069.0	0.9	219.9		27	6526	в	7.000x8.500	
		0.1.0	18027.0			59.77					
	4	45.0	17985.0	0.9	219.9	45.09	25	8590	В	7.000x8.500	
			17962.5			44.83					
	3	84.0	17940.0	0.9	219.9		25	9696	В	7.000x8.500	
88			17898.0			42.29					
	2	45.0	17856.0	0.9	219.9		25	11760	в	7.000x8.500	
	-		17833.5			43.70		43045	_	7	
	1	17811.0	17811.0	0.9	219.9		3399	12865	В	7.000x8.500	
			17810.0			13.98					
		0.0	17790.0			50.00					
		0.0	0.0			50.00					

Jesse Gagliano Halliburton Energy Services Account Representative - Cementing Office - Cementing Cell - Cell - Cementing Fax - Cementation E-mail - Cementation

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