

From: Kaluza, Robert
Sent: Mon Apr 19 13:04:48 2010
To: Morel, Brian P
Subject: Emailing: 7 x 9 .875 in cement job.doc
Importance: Normal
Attachments: 7 x 9 .875 in cement job.doc

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The message is ready to be sent with the following file or link attachments:
7 x 9 .875 in cement job.doc

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3553

Exhibit No. _____
Worldwide Court
Reporters, Inc.

7" x 9 7/8" Cement Plan

- Notify boat of the cement job
- Will pick-up Cement Stand off skate
- Will use (2) stroke counters on the rig floor
- RU on rig floor to easily pump down cement stand using rig pumps and cement unit

Break Circulation

1. MU cement stand, land-out, RU to pump down cement stand
2. Close diverter sub, Covert float
3. Break Circ with rig pumps. Initially circulate slowly, recommend break circ at 1 bpm, ramp-up slowly to 3 - 4 BPM as hole conditions warrant. Pump 150 - 190 bbls after pumps are up to speed.
4. Test N₂ Lines
5. Close top TIW, put 500 - 1,000 psi on Top Drive. Ensure bottom TIW is open.
6. Pump 7 bbls 6.7 ppg base oil using cementing unit.
7. Pump 10 bbls 14.3 ppg tuned spacer
8. Pressure test cement lines to 5,000 psi

Primary Cement Job

1. Pump 62 bbls of 14.3 tuned spacer at 4 bpm
Note: stop for 15 - 20 minutes to clean-up and mix cement
2. Pump 4 bbls, 16.74 ppg 'H' cement, pump rate 2 bpm
3. Drop Dart #1 on the run --- may need to increase pump rate to 4 bpm to push dart.
4. Pump 4 bbls of cement at < 2 bpm
Note: must slow to 2 bpm when starting N₂
5. Start pumping N₂ --- ensure there is good communication between the cementer and the N₂ hands
6. Pump 39 bbls cement : this cement will be foamed. Foamed volume 48 bbls.
7. Pump 4 bbls cement: this cement will be unfoamed
8. Pump 3 bbls, 14.3 ppg spacer
9. Drop Dart #2 on the run --- may need to increase pump rate to 4 bpm to push dart.
10. Pump 17 bbls spacer at 4 bpm.
11. Pump 133 bbls, 14.0 ppg Spacer with cement unit, 3 - 4 bpm --- switch to rig pumps

Displacement (switched to rig pumps)

1. Re-zero stroke counters. Displace 727 bbls 14.0 ppg SOBM at 3 – 4 bpm.
Note: to bump plug consider: 11 bbls of squat, 3 bbls compressibility + 3 bbls as $\frac{1}{2}$ shoe joints volume --- for a total of 754 bbls.
2. Bump plug with 500 psi – 1,000 psi over circulating pressure
3. Bleed back. Record bleed back volume. --- max bleed back is 6 bbls
Note: if floats don't hold, pump back 6 bbls, hold pressure.

Pull out of Hole

1. Set seal assy as per program
2. Release running tool from hanger
3. POOH 2 stands
4. Drop Nerf ball: Circ 1 1/2 times DP volume
5. Pump slug, POOH.



From: Morel, Brian P
 Sent: Mon Apr 19 13:58:19 2010
 To: Kaluza, Robert; Lambert, Lee; Vidrine, Don J
 Subject: 7 x 9 875 in cement job.doc
 Importance: Normal
 Attachments: 7 x 9 875 in cement job.ZIP

Attached is the cement plan Bob put together with the chart below included.

Step	Total	Difference	Release Pressure	
Bottom	60	60	2500	
Dart to	bbls	bbls	-	
Diverter			3000	
			psi	
Bottom	69	9	2500	
Dart to	bbls	bbls	-	
DTD			3000	
			psi	
Bottom	78	9	800 -	
Dart to	bbls	bbls	1200	
Plug			psi	
Top Dart to	120	43	2500	
Diverter	bbls	bbls	-	
			3000	
			psi	
Top Dart to	129	9	2500	Rig
DTD	bbls	bbls	-	StrokeCount
			3000	er
			psi	
Top Dart to	138	9	2000	Cumm
Plug	bbls	bbls	-	
			2500	

psi

Switch to	150	12	0	-	Re-Zer	0	0	
Rig Pumps	bbls	bbls	stks		o	bbls	stks	
Bottom	611	461	3661	-		461	3661	
Plug to 7"	bbls	bbls	stks			bbls	stks	
Top Plug	671	60	476	-		521	4137	Cumm
to 7"	bbls	bbls	stks			bbls	stks	
Bottom		146	1159	900	-	Re-Zer	667	5296 0 bbls 0 stks
Plug to		bbls	stks	1100	o	bbls	stks	
Float				psi				
Collar								
Top Plug	877	60	476	500 -		727	5772	60 bbls 476
to Float	bbls	bbls	stks	1000		bbls	stks	stks
Collar				psi		***	***	
Max	894	17	135			744	5907	77 bbls 611
Displacem	bbls	bbls	stks			bbls	stks	stks
ent						***	***	

*** If bottom
plug is not
seen

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10. Pump 17 bbls spacer at 4 bpm.
11. Pump 133 bbls, 14.0 ppg Spacer with cement unit, 3 - 4 bpm --- switch to rig pumps
Note: 150 bbls total pumped behind cement = 133 bbl SOBMs + 17 Spacer

Displacement (switched to rig pumps)

1. Re-zero stroke counters. Displace 727 bbls 14.0 ppg SOBMs at 3 - 4 bpm.
Note: to bump plug consider: 11 bbls of squat, 3 bbls compressibility + 3 bbls as 1/2 shoe joints volume --- for a total of 744 bbls.
2. Bump plug with 500 psi - 1,000 psi over circulating pressure

3. Bleed back. Record bleed back volume. --- max bleed back is 6 bbls
Note: if floats don't hold, pump back 6 bbls, hold pressure.

Step	Total	Difference		Release Pressure					
Bottom Dart to Diverter	60 bbls	60 bbls		2500 - 3000 psi					
Bottom Dart to DTD	68 bbls	8 bbls		2500 - 3000 psi					
Bottom Dart to Plug	78 bbls	9 bbls		800 - 1200 psi					
Top Dart to Diverter	120 bbls	43 bbls		2500 - 3000 psi					
Top Dart to DTD	129 bbls	9 bbls		2500 - 3000 psi					
Top Dart to Plug	138 bbls	9 bbls		2000 - 2500 psi					
Switch to Rig Pumps	150 bbls	12 bbls	0 stks	-	Re-Zero	0 bbls	0 stks		
Bottom Plug to 7"		461 bbls	3661 stks	-		461 bbls	3661 stks		
Top Plug to 7"		60 bbls	476 stks	-		521 bbls	4137 stks		
Bottom Plug to Float Collar		146 bbls	1159 stks	900 - 1100 psi	Re-Zero	667 bbls	5296 stks	0 bbls	0 stks
Top Plug to Float Collar		60 bbls	476 stks			727 bbls ***	5772 stks ***	60 bbls	476 stks
Max Displacement		17 bbls	135 stks	500 - 1000 psi		744 bbls ***	5907 stks ***	77 bbls	611 stks

*** If bottom plug is not seen

Pull out of Hole

1. Set seal assy as per program
2. Release running tool from hanger
3. POOH 2 stands
4. Drop Nerf ball: Circ 1 1/2 times DP volume
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