From: Nathaniel Chaisson
Sent: Tuesday, April 20, 2010 5:45 AM
To: Jesse Gagliano
Subject: 9.875" x 7" Casing Post Job
Attachments: BP_M.C. 252_Macondo #1 - 9.875 x 7 in Foamed Casing Post Job Summary.doc; Displacing Cement prod csg_19Apr.txt; 100419@2.zip; Job1.wda

Jesse,

We have completed the job and it went well. Full returns were observed throughout, and I estimated about 100 psi of lift pressure before we bumped the plug. I have attached the postjob report, the CemWin data, as well as the rig displacement which I obtained from Sperry. I am having issues sending the RT adi due to its size, I will send it to you tomorrow as soon as I get back to the office.

Thanks.

From: Jesse Gagliano
Sent: Sunday, April 18, 2010 8:58 PM
To: Anthony Cupit; Brett W Cocales (Brett.Cocales@bp.com); Christopher Haire; Danny Mooney; Don Vidrine; Earl Lee; Horizon Forman; Horizon Perf Engineers; Jason Fleming; John Guide; Mike Stidham; Murry Sepulvado; Ronald Sepulvado; Vincent Tabler; Morel, Brian P; Hafle, Mark E; Walz, Gregory S
Cc: Paul Anderson; Nathaniel Chaisson; Quang Nguyen
Subject: Updated Info for Prod Casing job

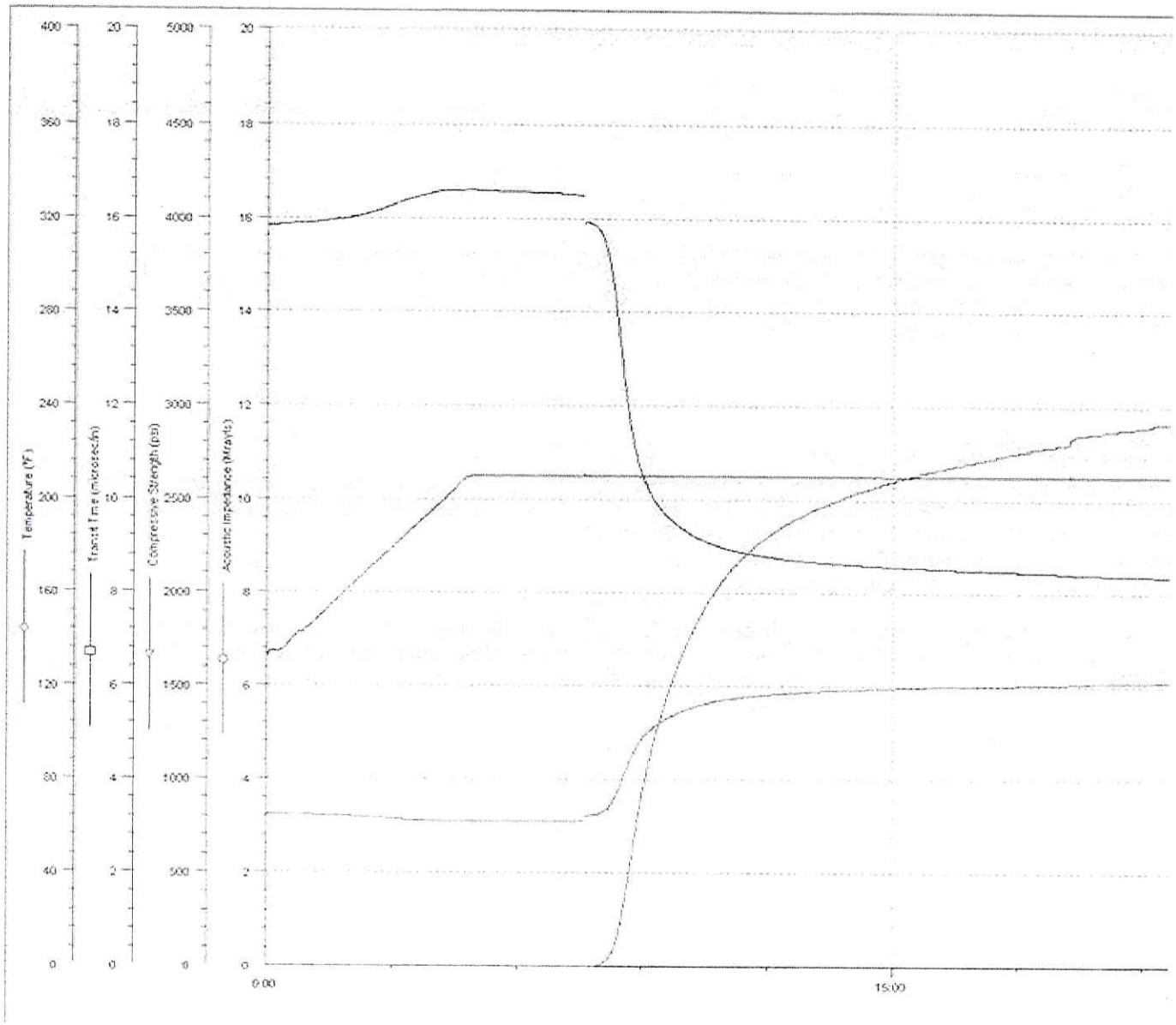
Attached it the revised information for the upcoming 9 7/8" X 7" Prod Casing job. The compressive strength is not completed yet, it currently has 34 hours. The chart of the progress is below. Let me know if you have any questions. Thanks!!

EXHIBIT # 708
WIT:

Well ID:
Temperature: 210 °F
Transit Time: 8.25 microsec/in

Customer:
Strength: 3080 psi
Compressive strength type B (more than 14 lb/gal)

50 psi @ 8:12:08
500 psi @ 8:40:30



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BP America
PO Box 22024
Tulsa, Oklahoma 74121-2024

OCS-G-32306 , Macondo #1
Mississippi Canyon Block 252
Offshore Gulf of Mexico
United States of America

Rig Name: Transocean Horizon

9.875" x 7" Foamed Production Casing Post Job Report

Prepared for: Jesse Gagliano

April 20, 2010

Submitted by:
Nathaniel Chaisson
Technical Professional
100 Capital Dr Ste 200
Lafayette, LA 70508

HALLIBURTON

Job Information *9.875" x 7" Production Casing*

String:	9.875" x 7"	**Type:**	Production Casing	**Weight (ppf):**	62.80 #/ft x 32.00 #/ft
Callipered ID:	N/A	**Casing MD:**	12488 ft x 18304 ft	**Casing TVD:**	12488 ft x 18304 ft
Landing String OD/ID (in):	6.625 / 5.426 32.67 #/ft	**Landing String Length:**	5060 ft	**Water Depth/Air Gap:**	4992' / 75'
Inner String OD/ID (in):	N/A	**Innerstring Length:**	N/A	**BHST/BHCT:**	210 / 135 degrees
Hole Size:	10.50" x 8.88"	**Rat Hole:**	55 ft	**Open Hole Actual Excess:**	0 %
Shoe Track Length:	189 ft	**Circulation Rate:**	4 bpm	**Circulation Volume:**	150 bbls
Returns While Circulating?	Yes	**Pipe Movement?**	No	**Displacement Rate:**	4 bpm
Returns While Cementing?	Yes	**Mud Lost While Cementing:**	No	**Mud Weight /Type:**	14.0 ppg SBM Pad Mud
Annular Flow Before/After Cementing?	No	**Dart Shear?**	Yes	**Estimated TOC:**	17,300 ft.
Casing Test:	1000 psi	**Cement Tagged At:**	N/A	**Hard Cement in Shoe?**	N/A
MMS Req. met	Yes	**Actual Shoe Test:**	N/A	**Squeeze Performed?**	N/A

Fluids Pumped

1. **Spacer:** **72 bbls** of Tuned Spacer III mixed at 14.3 ppg with 0.6 gal/bbl Surfactant A + 0.6 gal/bbl Surfactant B + 0.6 gal/bbl SEM-8 + 1 lb/bbl WellLife 734 + Fresh Water

2. **Lead:** **5.26 bbls / 22 sks** Premium H + .07% EZ-Flo + .25% D-Air 3000 + 1.88 lb/sk KCL + 20% SSA-1 + 15% SSA-2 + .2 % SA-541 + .11 gps Zoneseal 2000 + .09 gps SCR-100L + 1 lb/bbl WellLife 734 mixed with fresh water at 16.74 lb/gal .

3. **Foamed Tail:** **38.90 bbls / 159 sks (47.75 bbls foamed)** Premium H + .07% EZ-Flo + .25% D-Air 3000 + 1.88 lb/sk KCL + 20% SSA-1 + 15% SSA-2 + .2 % SA-541 + .11 gps Zoneseal 2000 + .09 gps SCR-100L + 1 lb/bbl WellLife 734 mixed with fresh water at 16.74 lb/gal and foamed to 14.5 lb/gal with a 1.69 cuft/sk foamed yield (N2 conc. of 584 scf/bbl).

4. **Shoe Track:** **6.93 bbls / 28 sks** Premium H + .07% EZ-Flo + .25% D-Air 3000 + 1.88 lb/sk KCL + 20% SSA-1 + 15% SSA-2 + .2 % SA-541 + .11 gps Zoneseal 2000 + .09 gps SCR-100L + 1 lb/bbl WellLife 734 mixed with fresh water at 16.74 lb/gal

5. **Spacer** **20 bbls** of Tuned Spacer III mixed at 14.3 ppg with 0.6 gal/bbl Surfactant A + 0.6 gal/bbl Surfactant B + 0.6 gal/bbl SEM-8 + 1 lb/bbl WellLife 734 + Fresh Water

6. **Displacement:** **133 bbls** 14.0 ppg SBM w/ Halliburton pumps.

7. **Displacement:** **728.5 bbls** 14.0 ppg SBM w/ Rig pumps, leaving **189** ***ft of cement in shoe.***

Job Log

Time	Event
4-19-10	
19:00	Pre job safety meeting job meeting with rig crew reviewing detailed pumping procedure.
19:29	Blow nitrogen through choke to assure line is clear. Nitrogen line plugged.
19:38	Nitrogen line cleared.
19:39	Test nitrogen lines to 5000 psi. Leak found. Leak repaired.
19:45	Test N2 Lines to 56000 psi – bleed off no leaks noticed
19:47	Pump 7 bbls of 6.7 ppg base oil. Had 5 bbls of mud ahead of base oil.
19:53	Pump 10 bbls of 14.3 ppg Tuned Spacer III to break circulation.
19:54	Returns seen at wellhead
19:57	Test Cement Lines to 5000psi – bleed off no leaks noticed
19:59	Pump 62 bbls of Tuned Spacer III at 14.3 ppg – Sem-8 online.
20:17	Finished pumping spacer. Wash out measuring tanks.
20:28	Start weighing up cement.
20:37	Started pumping 16.74 ppg Unfoamed Lead Cement – ZoneSeal 2000 online.
	Pumped 4 bbls of Unfoamed Lead Cement (1 Downhole / 3 In Lines)
20:39	Drop dart to release bottom plug.
20:41	Completed Unfoamed Lead Cement. Total of 5 bbls.
20:42	Started pumping Tail Cement foamed to 14.5 ppg – Nitrogen online.
21:00	Completed Foamed Tail Cement. Total of 39 surface bbls – Nitrogen offline.
21:01	Started pumping 16.74 ppg Un-foamed Shoe Cement.
21:03	Completed Un-foamed Shoe Cement. Total of 7 bbls.
21:04	Pump 3 bbls of 14.3 ppg Tuned Spacer to clear lines of cement.
21:05	Drop dart to release top plug.
21:06	Pump 17 bbls of 14.3 ppg Tuned Spacer – Sem-8 online.
21:11	All spacer pumped.

21:12	Start displacing cement with 14.0 ppg SBM using HES pumps.
21:21	Dart #1 through diverter at 3500 psi with 43 bbls of SBM pumped using HES pumps.
21:23	Dart #1 through DTD at 3200 psi with 50 bbls of SBM pumped using HES pumps.
21:35	Dart #2 through diverter at 3150 psi with 101 bbls of SBM pumped using HES pumps.
21:37	Dart #2 through DTD at 3350 psi with 109 bbls of SBM pumped using HES pumps.
21:39	Dart #2 launched top plug at 3300 psi with 117 bbls of SBM pumped using HES pumps.
21:43	Finished pumping 133 bbls of SBM & turn over to the rig to complete displacement.
23:39	Bottom plug through X-over at 830 psi with 469.5 bbls of SBM pumped with the rig pumps.
23:53	Top plug through X-over at 500 psi with 525 bbls of SBM pumped with the rig pumps.

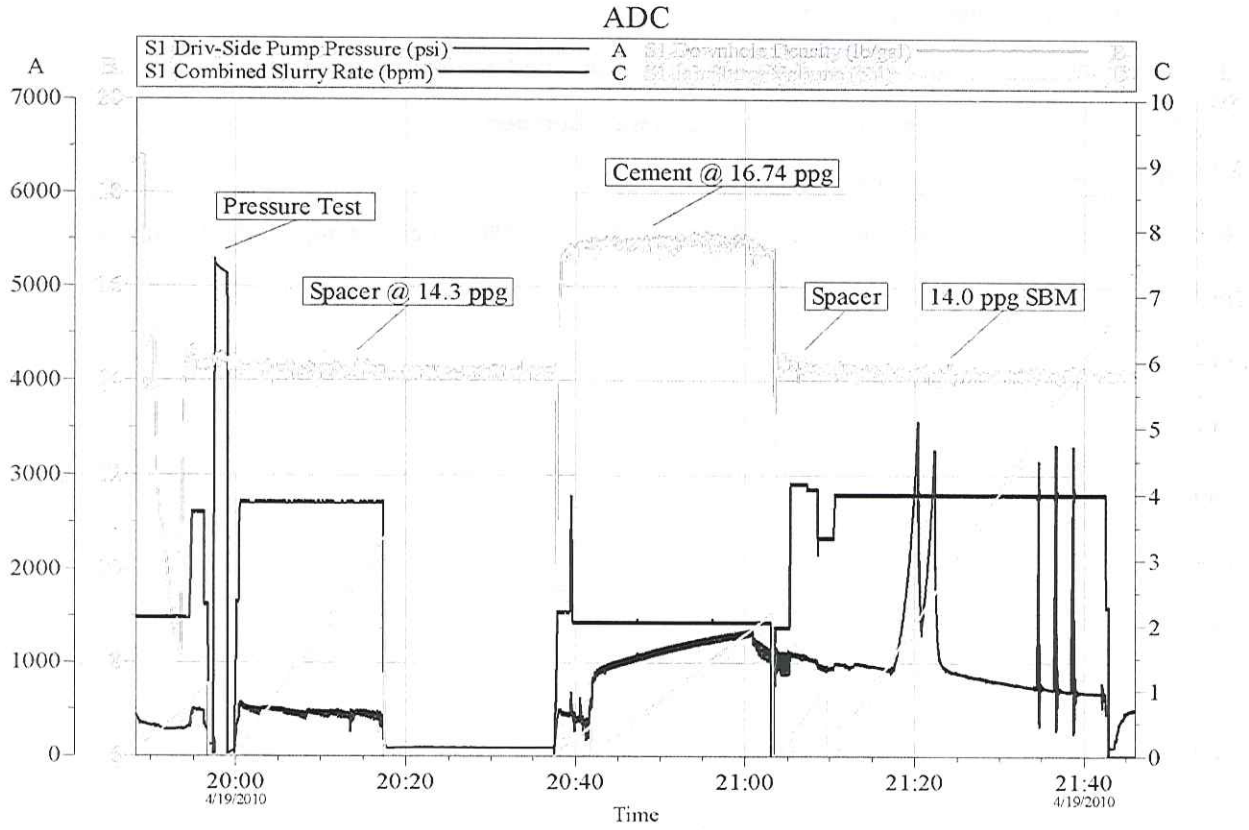
4-20-10

00:29	Bottom plug bumped at 2900 psi with 673 bbls of SBM pumped with the rig pumps.
00:40	Top plug bumped at 1150 psi (1000 psi over circulating) with 728.5 bbls of SBM with the rig pumps.
00:43	Check floats...bled back 5 bbls. Floats held.

Significant Points

- Cement job pumped as planned.
- Chemical straps determined that additives were pumped at planned volumes
- Rig completed displacement and both plugs were bumped.
- Full returns seen throughout entire job.
- Estimated 100 psi of lift pressure (350 psi circulating to 450 psi circulating), before bumping top plug.
- Floats held after job.

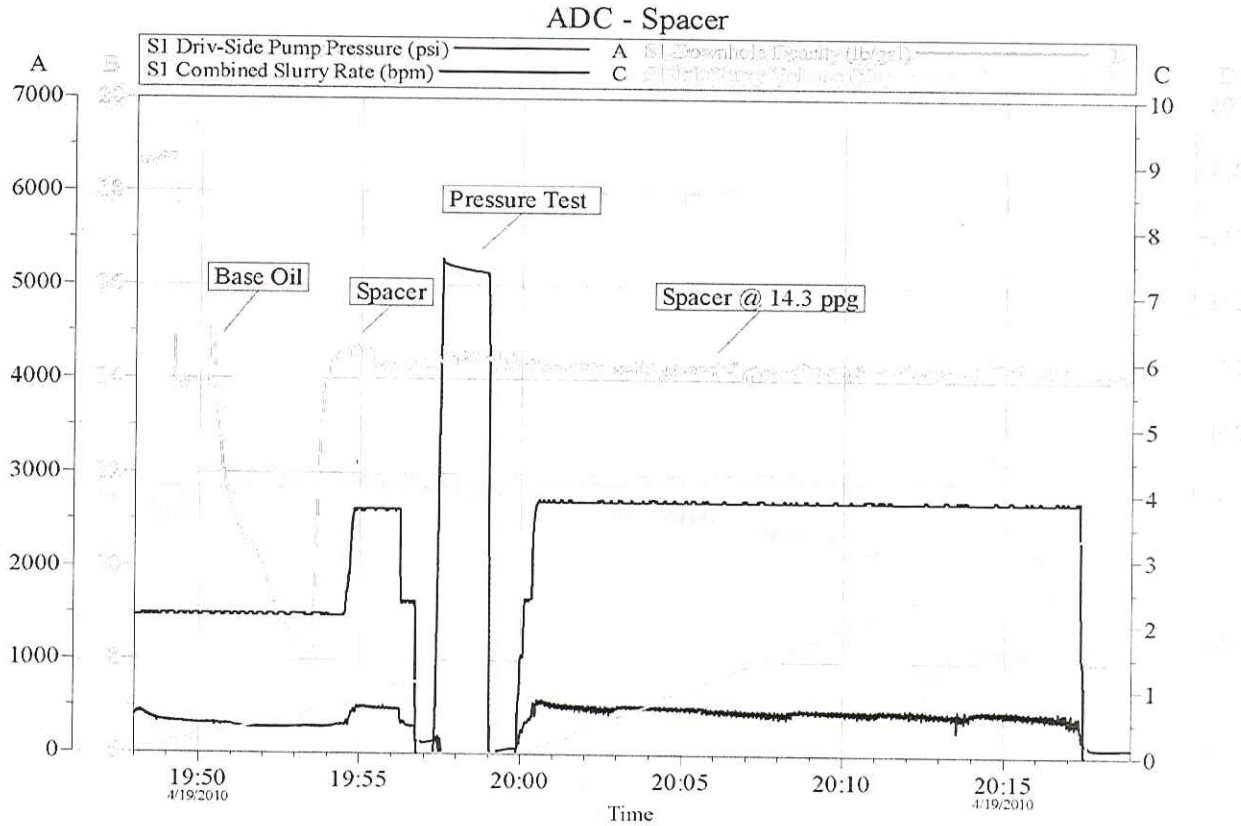
Recorded at cementing unit (Down Hole Density, Pressure, Rate, Stage Slurry Volume):



Customer:	BP AMERICA PRODUCTION COMPANY	Job Date: 19-Apr-2010	Sales Order #:
Well Description:	Macondo #1	UWI:	

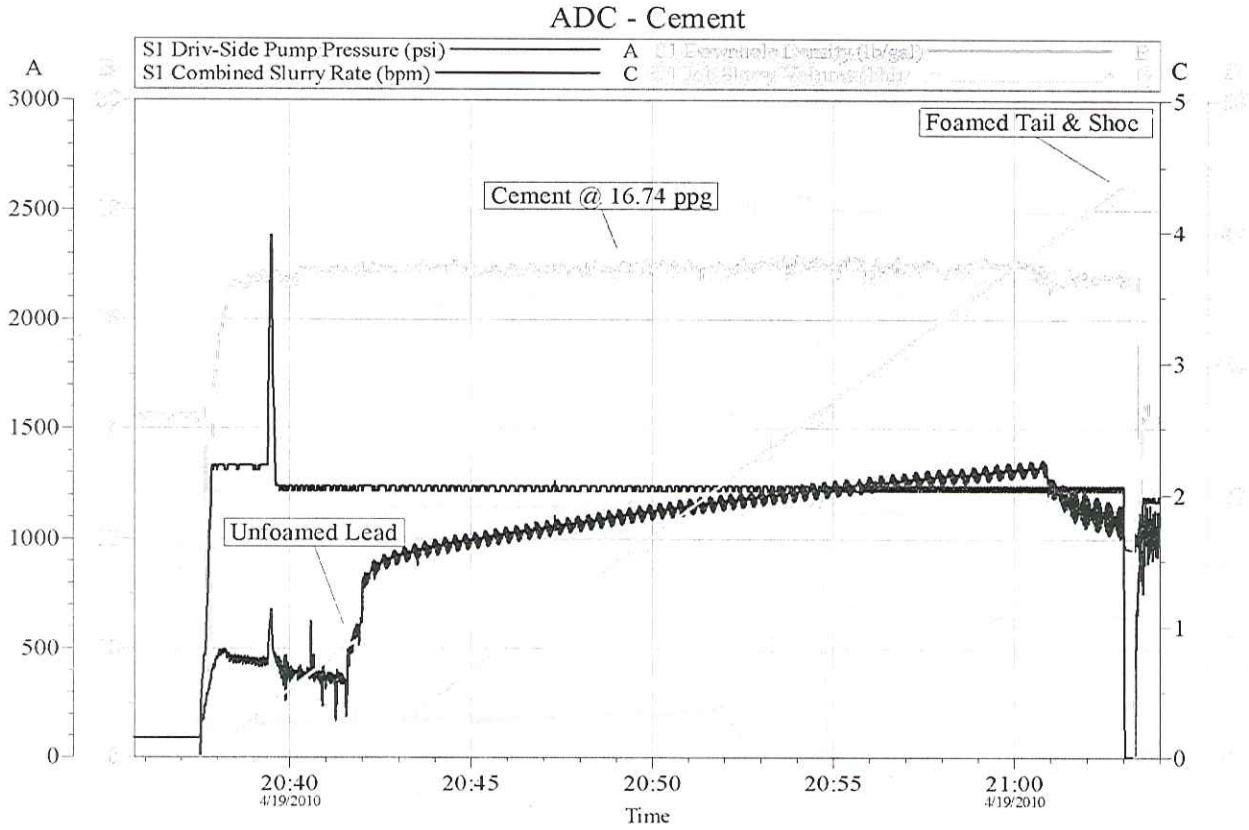
OptiCem v6.4.7
20-Apr-10 02:50

Recorded at cementing unit (Down Hole Density, Pressure, Rate, Stage Slurry Volume):



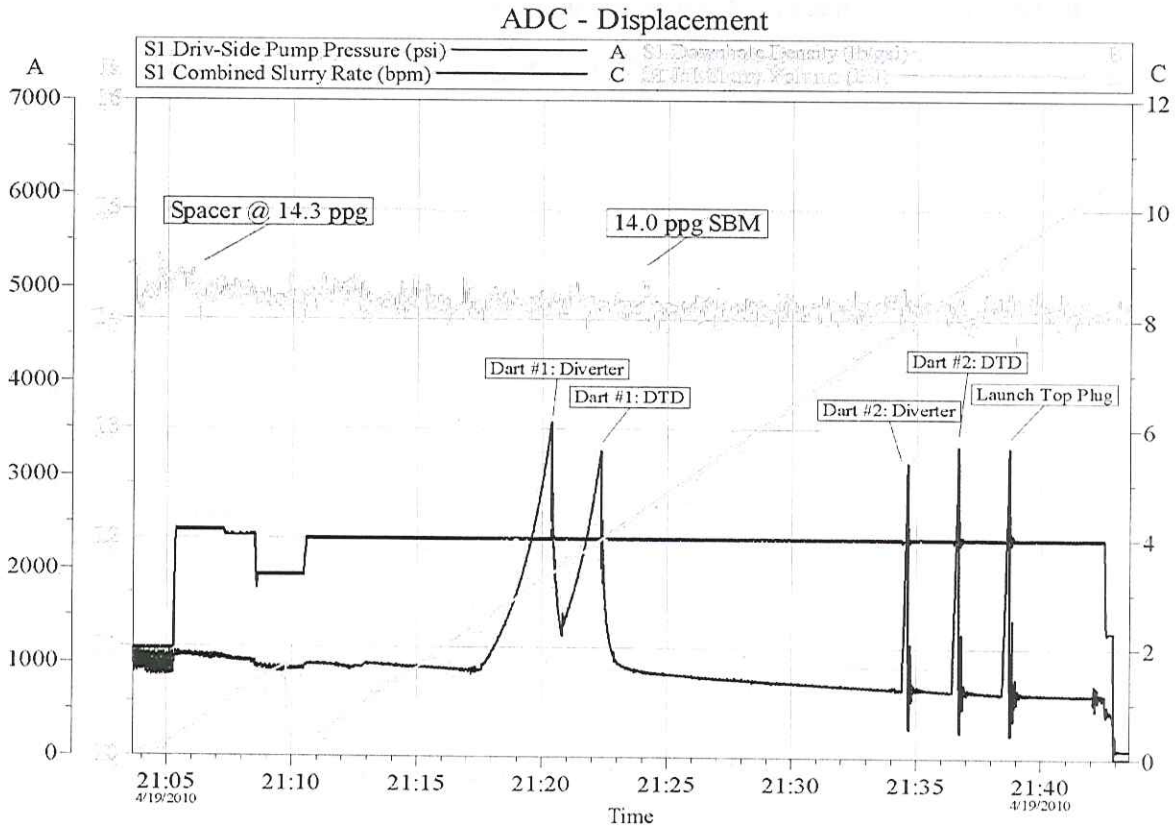
Customer: BP AMERICA PRODUCTION COMPANY Well Description: Macondo #1	Job Date: 19-Apr-2010 UWI:	Sales Order #:	OptiCem v6.4.7 20-Apr-10 02:54

Recorded at cementing unit (Down Hole Density, Pressure, Rate, Stage Slurry Volume):



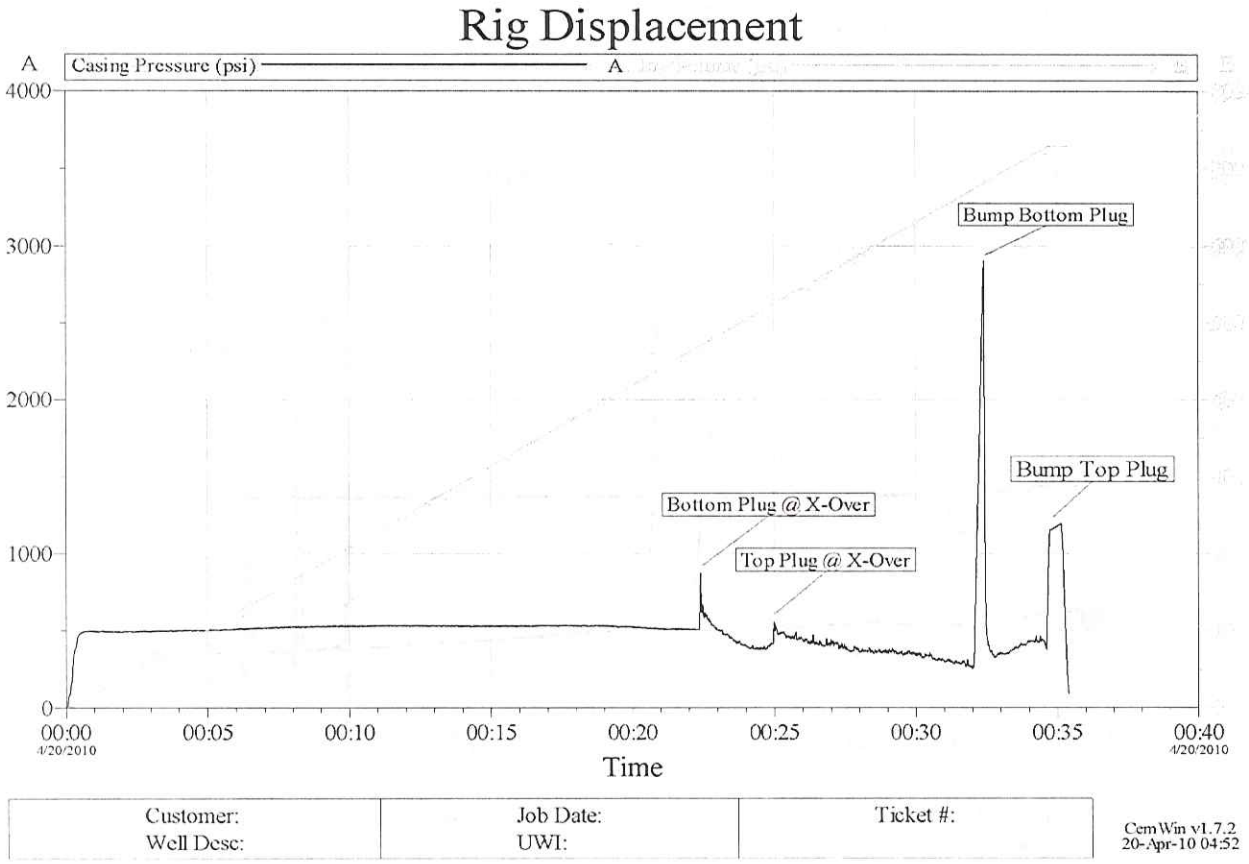
Customer: BP AMERICA PRODUCTION COMPANY Well Description: Macondo #1	Job Date: 19-Apr-2010 UWI:	Sales Order #:	OptiCem v6.4.7 20-Apr-10 03:02

Recorded at cementing unit (Down Hole Density, Pressure, Rate, Stage Slurry Volume):



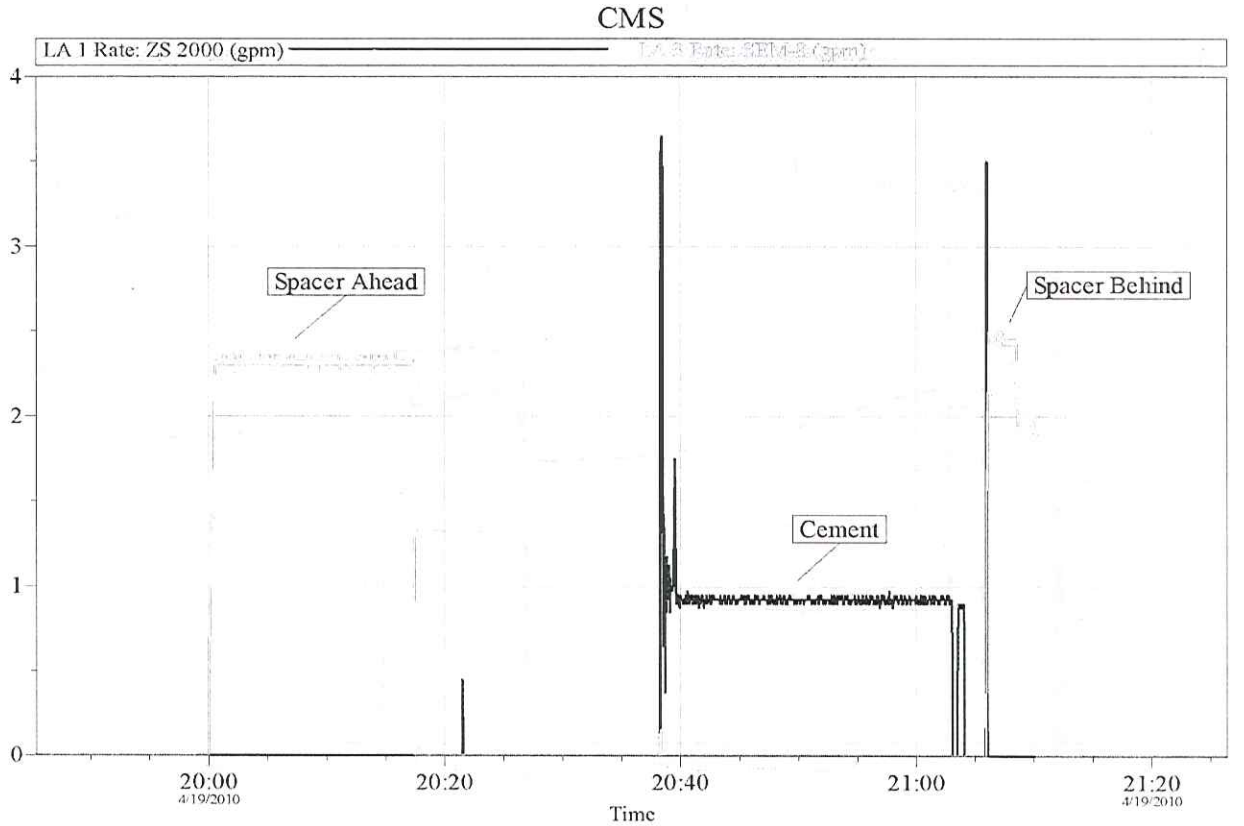
Customer: BP AMERICA PRODUCTION COMPANY Well Description: Macondo #1	Job Date: 19-Apr-2010 UWI:	Sales Order #:	OptiCem v6.4.7 20-Apr-10 03:21

Recorded at Sperry's unit (Pressure, Stage Slurry Volume):



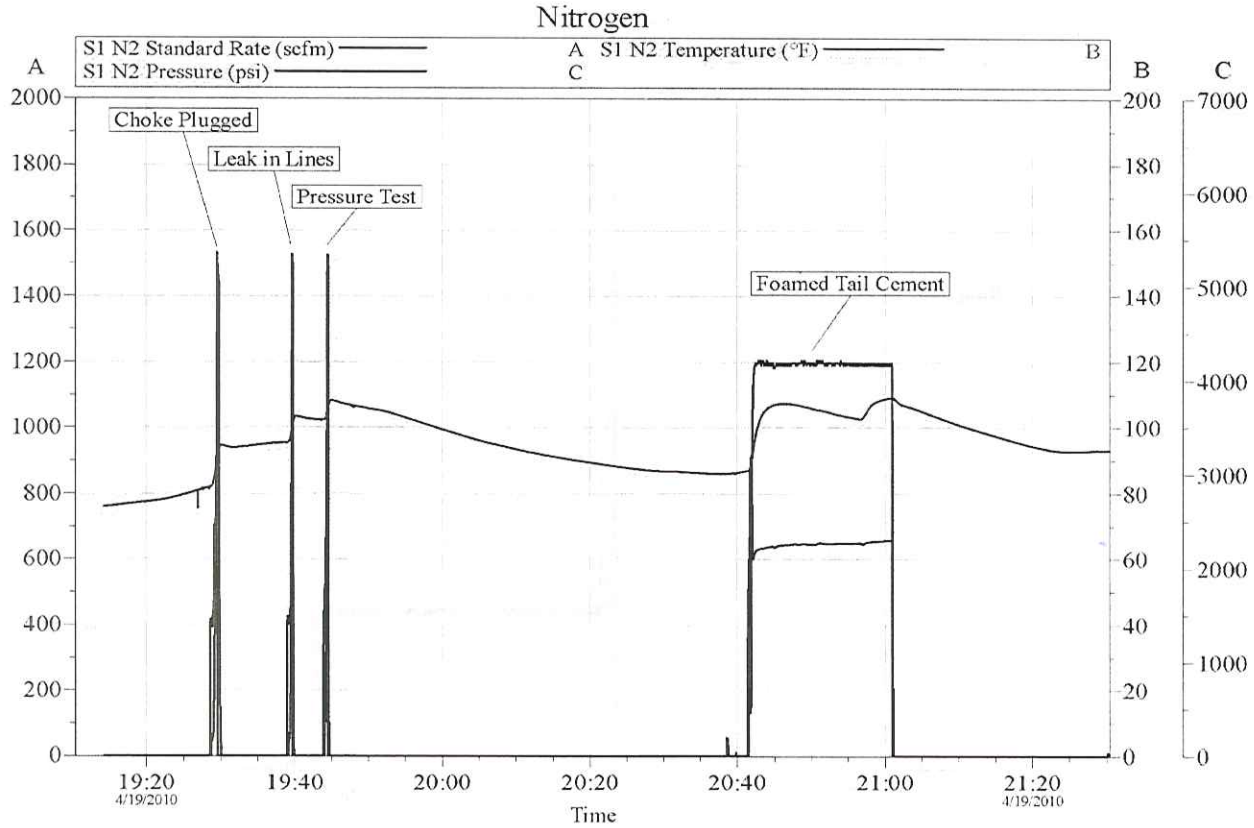
Note: Graph created from Sperry's data, time of events are not correct.

Recorded at cementing unit (CMS Rate - ZoneSeal 2000 automates from Combined Pump Rate):



Customer: BP AMERICA PRODUCTION COMPANY	Job Date: 19-Apr-2010	Sales Order #:	OptiCem v6.4.7 20-Apr-10 03:44
Well Description: Macondo #1	UWI:		

Recorded at N2 unit (N2 rate automates from Combined Pump Rate read by Nitrogen Unit):



Customer: BP AMERICA PRODUCTION COMPANY Well Description: Macondo #1	Job Date: 19-Apr-2010 UWI:	Sales Order #:	OptiCem v6.4.7 20-Apr-10 05:17

PRODUCED IN NATIVE FORMAT

BegDoc#: HAL_0011222

Filename: Displacing Cement prod csg_19Apr.txt

PRODUCED IN NATIVE FORMAT