HALLIBURTON

iCem® Service

Post Job Report

ANADARKO PETROLEUM CORP - EBUS

For:
Date: Saturday, June 21, 2014

30C-25 HZ

ANADARKO BAREFOOT 30C-25 HZ SURFACE

Sincerely,

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1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Barefoot 30C-25HZ** cement **Surface** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton [Brighton]

Job Times

	Date	Time	Time Zone
Requested Time On Location	6/21/14	1500	MTN
Called Out	6/21/14	0900	MTN
On Location	6/21/14	1345	MTN
Job Started	6/21/14	1642	MTN
Job Completed	6/21/14	1805	MTN
Departed Location	6/21/14	1900	MTN

1.2 Cementing Job Summary

Sold To #: 300466	**Ship To #:** 3458911	**Quote #:**	**Sales Order #:** 0901435836
Customer: ANADARKO PETROLEUM CORP - EBUS		**Customer Rep:**	
Well Name: BAREFOOT	**Well #:** 30C-25 HZ		**API/UWI #:** 05-123-39189-00
Field: WATTENBERG	**City (SAP):** LONGMONT	**County/Parish:** WELD	**State:** COLORADO
Legal Description: NE NE-25-3N-68W-539FNL-514FEL			
Contractor:		**Rig/Platform Name/Num:** Majors 42	
Job BOM: 7521			
Well Type: HORIZONTAL GAS			
Sales Person: HALAMERICA\HB47901		**Srvc Supervisor:**	

Job

Formation Name				
Formation Depth (MD)	**Top**		**Bottom**	
Form Type			**BHST**	
Job depth MD	1389ft		**Job Depth TVD**	
Water Depth			**Wk Ht Above Floor**	
Perforation Depth (MD)			**To**	

Well Data

	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	8.921	36		J-55	0	1388		
Open Hole Section			13.5				0	1398		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1388		**Top Plug**	9.625	1	HES
Float Shoe	9.625	1				**Bottom Plug**	9.625	1	HES
Float Collar	9.625	1				**SSR plug set**	9.625	1	HES
Insert Float	9.625	1				**Plug Container**	9.625	1	HES
	9.625	1				**Centralizers**	9.625	1	HES

Miscellaneous Materials

Gelling Agt		**Conc**		**Surfactant**		**Conc**		**Acid Type**		**Qty**			
Treatment Fld		**Conc**				Conc		**Sand Type**					

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Mud Flush III (Powder)	Mud Flush III	0	bbl	8.4				
42 gal/bbl									

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Lead Cement	SWIFTCEM (TM) SYSTEM		sack	14.2	1.54		6	7.64
7.64 Gal									

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Displacement	Displacement	0	bbl	8.33				

	Amount	40 ft		

Comment

1.5 Job Overview

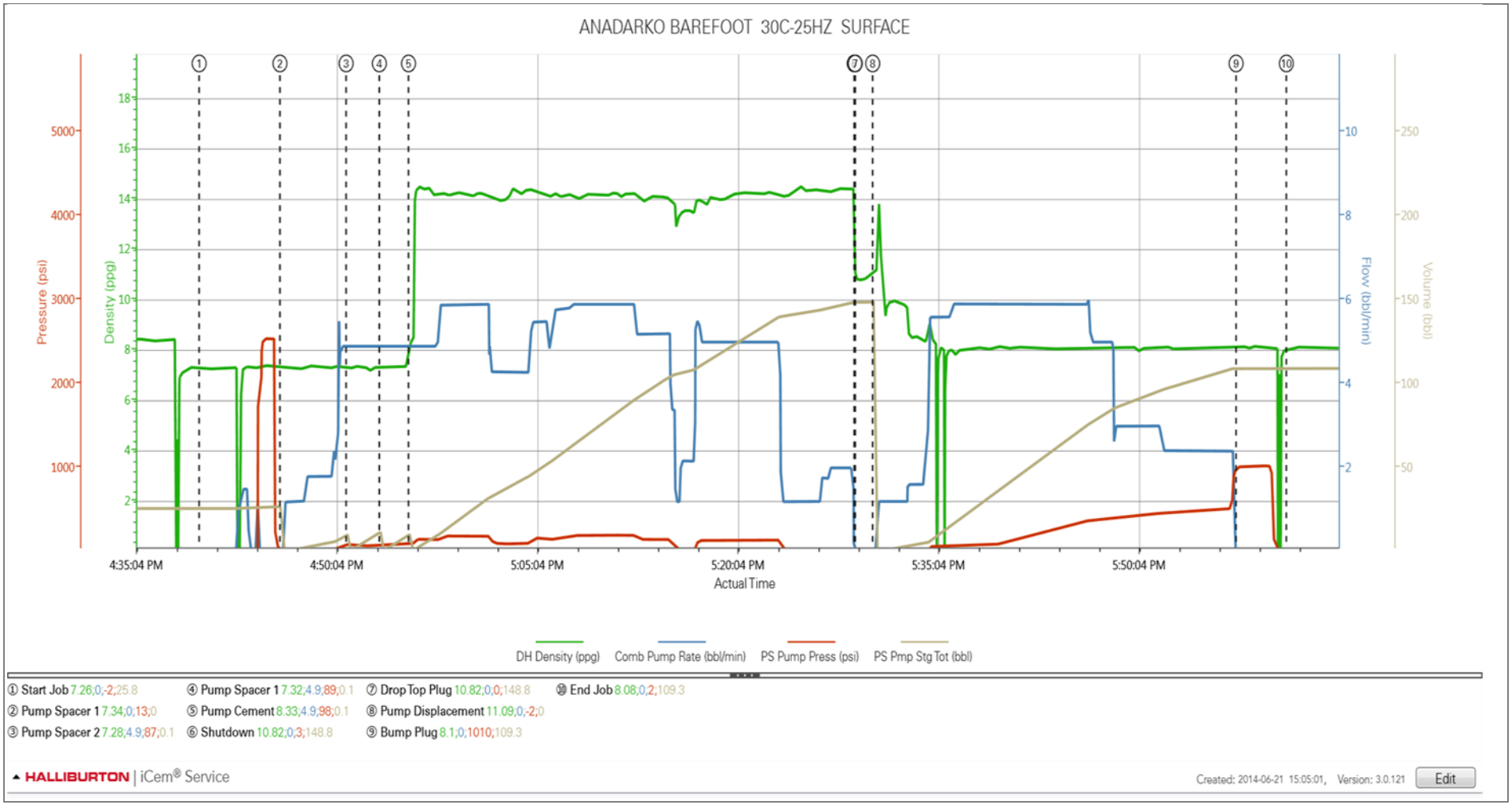
		Units	Description
1	Surface temperature at time of job	^{o}F	78
2	Mud type (OBM, WBM, SBM, Water, Brine)	-	WBM
3	Actual mud density	lb/gal	
4	Actual mud Plastic Viscosity (PV)	cP	
5	Actual mud Yield Point (YP)	$lb_f/100ft^2$	
6	Actual mud 30 min Gel Strength	$lb_f/100ft^2$	
7	Time circulated before job	HH:MM	
8	Mud volume circulated	Bbls	
9	Rate at which well was circulated	Bpm	
10	Pipe movement during hole circulation	Y/N	
11	Rig pressure while circulating	Psi	
12	Time from end mud circulation to start of job	HH:MM	:20
13	Pipe movement during cementing	Y/N	N
14	Calculated displacement	Bbls	105
15	Job displaced by	Rig/HES	HES
16	Annular flow before job	Y/N	
17	Annular flow after job	Y/N	
18	Length of rat hole	Ft	10
19	Units of gas detected while circulating	Units	0
20	Was lost circulation experienced at any time?	Y/N	N

1.6 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density *(ppg)*	Comb Pump Rate *(bbl/min)*	PS Pump Press *(psi)*	PS Pmp Stg Tot *(bbl)*	Comment
Event	1	Start Job	Start Job	6/21/2014	16:39:55	COM4	7.26	0.00	-2.00	25.8	
Event	2	Pump Spacer 1	Pump Spacer 1	6/21/2014	16:45:57	COM4	7.34	0.00	13.00	0.0	10 BBL WATER
Event	3	Pump Spacer 2	Pump Spacer 2	6/21/2014	16:50:54	COM4	7.28	4.90	87.00	0.1	12 BBL OF MUD FLUSH
Event	4	Pump Spacer 1	Pump Spacer 1	6/21/2014	16:53:23	COM4	7.32	4.90	89.00	0.1	10 BBL OF WATER
Event	5	Pump Cement	Pump Cement	6/21/2014	16:55:34	COM4	8.33	4.90	98.00	0.1	149 BBL OF SWIFTCEM @ 14.2 PPG /1.53 YIELD/7.63 GAL /SK
Event	6	Shutdown	Shutdown	6/21/2014	17:28:54	COM4	10.82	0.00	3.00	148.8	
Event	7	Drop Top Plug	Drop Top Plug	6/21/2014	17:28:59	COM4	10.82	0.00	0.00	148.8	PRELOADED
Event	8	Pump Displacement	Pump Displacement	6/21/2014	17:30:17	COM4	11.09	0.00	-2.00	0.0	WATER WITH CEMENT TO SURFACE @ 95 BBL AWAY/510PSI
Event	9	Bump Plug	Bump Plug	6/21/2014	17:57:28	COM4	8.10	0.00	1010.00	109.3	1095 PSI
Event	10	End Job	End Job	6/21/2014	18:01:14	COM4	8.08	0.00	2.00	109.3	

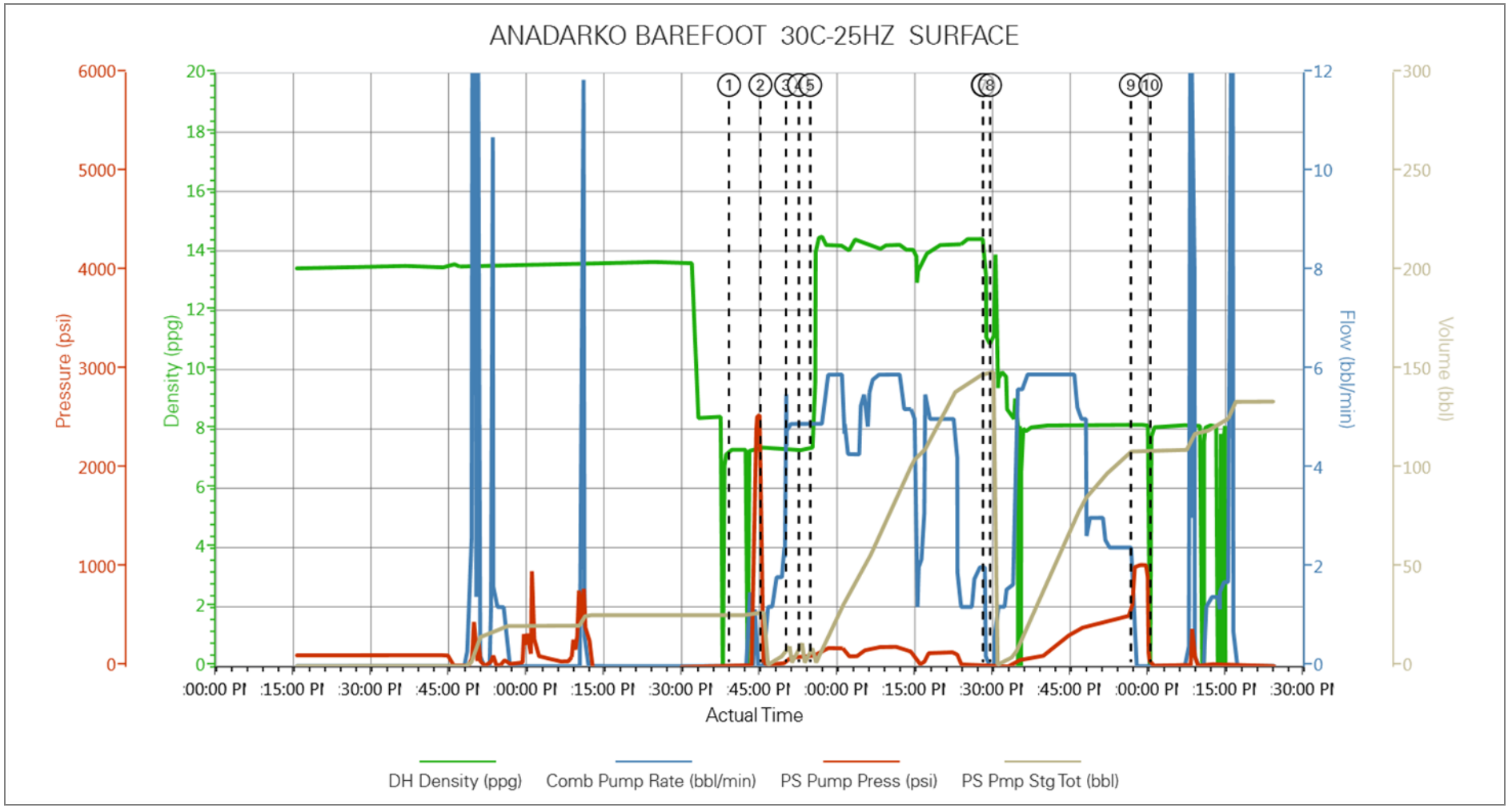
2.0 Attachments

2.1 ANADARKO BAREFOOT 30C-25 HZ SURFACE-Custom Results.png



3.0 Custom Graphs

3.1 Custom Graph



4.0 Appendix

Insert additional information regarding the job here (i.e. bulk and pilot testing, pre-job modeling, etc….)