HALLIBURTON

iCem® Service

Post Job Report

ANADARKO PETROLEUM CORP - EBUS

For: ALAN SEACREST
Date: Friday, June 06, 2014

Benson Farms 11N-19HZ Surface
BENSON FARMS
Case 1

Sincerely,
AARON SMITH

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1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Benson Farms 11N-19HZ** 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
Called Out	06/06	0100	MST
On Location		0545	
Job Started		0842	
Job Completed		1009	
Departed Location		1032	

1.2 Cementing Job Summary

Sold To #: 300466	**Ship To #:** 3475283	**Quote #:**	**Sales Order #:** 0901403994
Customer: ANADARKO PETROLEUM CORP - EBUS		**Customer Rep:** Alan Seacrest	
Well Name: BENSON FARMS	**Well #:** 11N-19HZ		**API/UWI #:** 05-123-39398-00
Field: WATTENBERG	**City (SAP):** MEAD	**County/Parish:** WELD	**State:** COLORADO
Legal Description: NW SW-24-3N-68W-2105FSL-50FWL			
Contractor:		**Rig/Platform Name/Num:** Majors 42	
Job BOM: 7521			
Well Type: HORIZONTAL GAS			
Sales Person: HALAMERICA\HX46524		**Srvc Supervisor:** Aaron Smith	

Job

Formation Name				
Formation Depth (MD)	**Top**		**Bottom**	
Form Type			**BHST**	
Job depth MD	1232ft		**Job Depth TVD**	1232
Water Depth			**Wk Ht Above Floor**	5
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	3	9.625	8.921	36		J-55	0	1222	0	1222
Open Hole Section			13.5				0	1232	0	1232

Tools and Accessories

Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625					**Top Plug**	9.625	1	HWE
Float Shoe	9.625	1	SSII	1222		**Bottom Plug**	9.625		HES
Float Collar	9.625	1	SSII	1181		**SSR plug set**	9.625		HES
Insert Float	9.625					**Plug Container**	9.625	1	HES
	9.625					**Centralizers**	9.625	10	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	10	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	461	sack	14.2	1.54		6	7.64

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	92	bbl	8.33				

	Amount	41 ft		

Comment

1.4 Job Overview

		Units	Description
1	Surface temperature at time of job	^{o}F	
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	N
11	Rig pressure while circulating	Psi	
12	Time from end mud circulation to start of job	HH:MM	
13	Pipe movement during cementing	Y/N	N
14	Calculated displacement	Bbls	
15	Job displaced by	Rig/HES	
16	Annular flow before job	Y/N	N
17	Annular flow after job	Y/N	N
18	Length of rat hole	Ft	
19	Units of gas detected while circulating	Units	
20	Was lost circulation experienced at any time?	Y/N	N

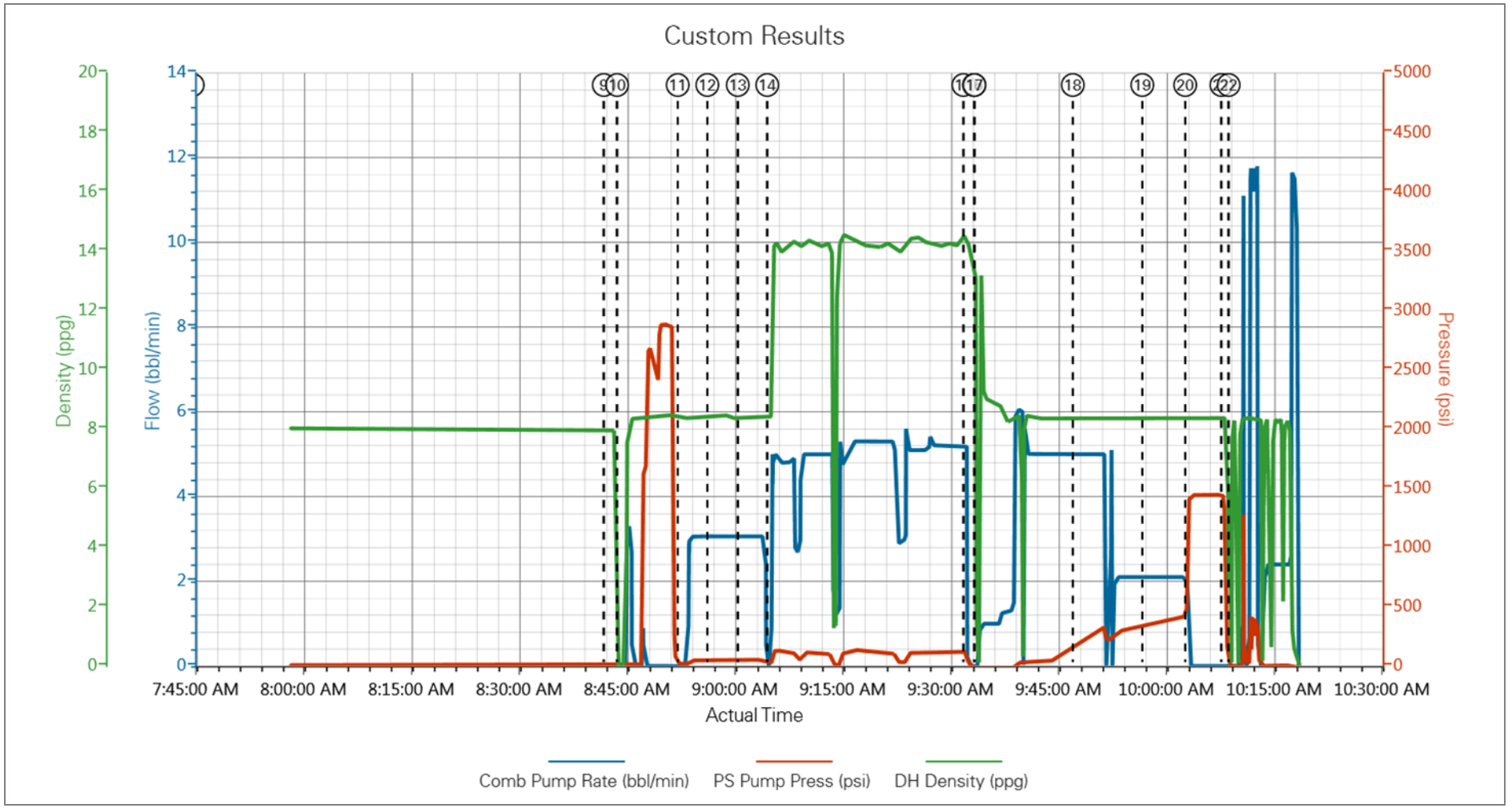
1.5 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate *(bbl/min)*	PS Pump Press *(psi)*	DH Density *(ppg)*	Comment
Event	1	Depart from Service Center or Other Site	Depart from Service Center or Other Site	6/6/2014	05:20:00	USER				
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	6/6/2014	05:45:00	USER				WITH ALL EQUIPMENT AND MATERIALS
Event	3	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	6/6/2014	06:00:00	USER				
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/6/2014	06:05:00	USER				RIG-UP JSA WITH HES CREW
Event	5	Rig-Up Equipment	Rig-Up Equipment	6/6/2014	06:10:00	USER				
Event	6	Rig-Up Completed	Rig-Up Completed	6/6/2014	06:25:00	USER				
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/6/2014	06:41:05	USER				WITH CUSTOMER REP AND RIG CREW
Event	8	Casing on Bottom	Casing on Bottom	6/6/2014	07:45:00	USER				
Event	9	Start Job	Start Job	6/6/2014	08:42:11	COM7	0.00	5.00	7.98	
Event	10	Test Lines	Test Lines	6/6/2014	08:44:01	COM7	0.00	3.00	-0.33	@ 2500 PSI
Event	11	Pump Spacer 1	Pump Spacer 1	6/6/2014	08:52:27	COM7	0.00	15.00	8.28	10 BBLS FRESH WATER
Event	12	Pump Spacer 2	Pump Spacer 2	6/6/2014	08:56:34	COM7	3.10	49.00	8.42	12 BBLS MUD FLUSH
Event	13	Pump Spacer 1	Pump Spacer 1	6/6/2014	09:00:48	COM7	3.10	51.00	8.37	10 BBLS FRESH WATER
Event	14	Pump Cement	Pump Cement	6/6/2014	09:04:54	COM7	0.00	19.00	8.40	126 BBLS/461 SKS, @ 14.2 PPG, 1.54 YIELD, 7.64 GAL/SK
Event	15	Shutdown	Shutdown	6/6/2014	09:32:11	COM7	0.20	97.00	14.49	
Event	16	Drop Top Plug	Drop Top Plug	6/6/2014	09:33:39	COM7	0.00	-12.00	0.21	PRE-LOADED HWE TOP PLUG IN PLUG CONTAINER
Event	17	Pump Displacement	Pump Displacement	6/6/2014	09:33:44	COM7				92 BBLS FRESH WATER
Event	18	Other	Spacer Returns to Surface	6/6/2014	09:47:24	COM7	5.00	174.00	8.36	47 BBLS DISPLACEMENT 32 TOSURFACE
Event	19	Other	Cement Returns to Surface	6/6/2014	09:57:04	COM7				79 BBLS DISPLACEMENT 13 BBLS TO SURFACE
Event	20	Bump Plug	Bump Plug	6/6/2014	10:03:02	COM7				FINAL CIRCULATING PRESSURE 416 PSI

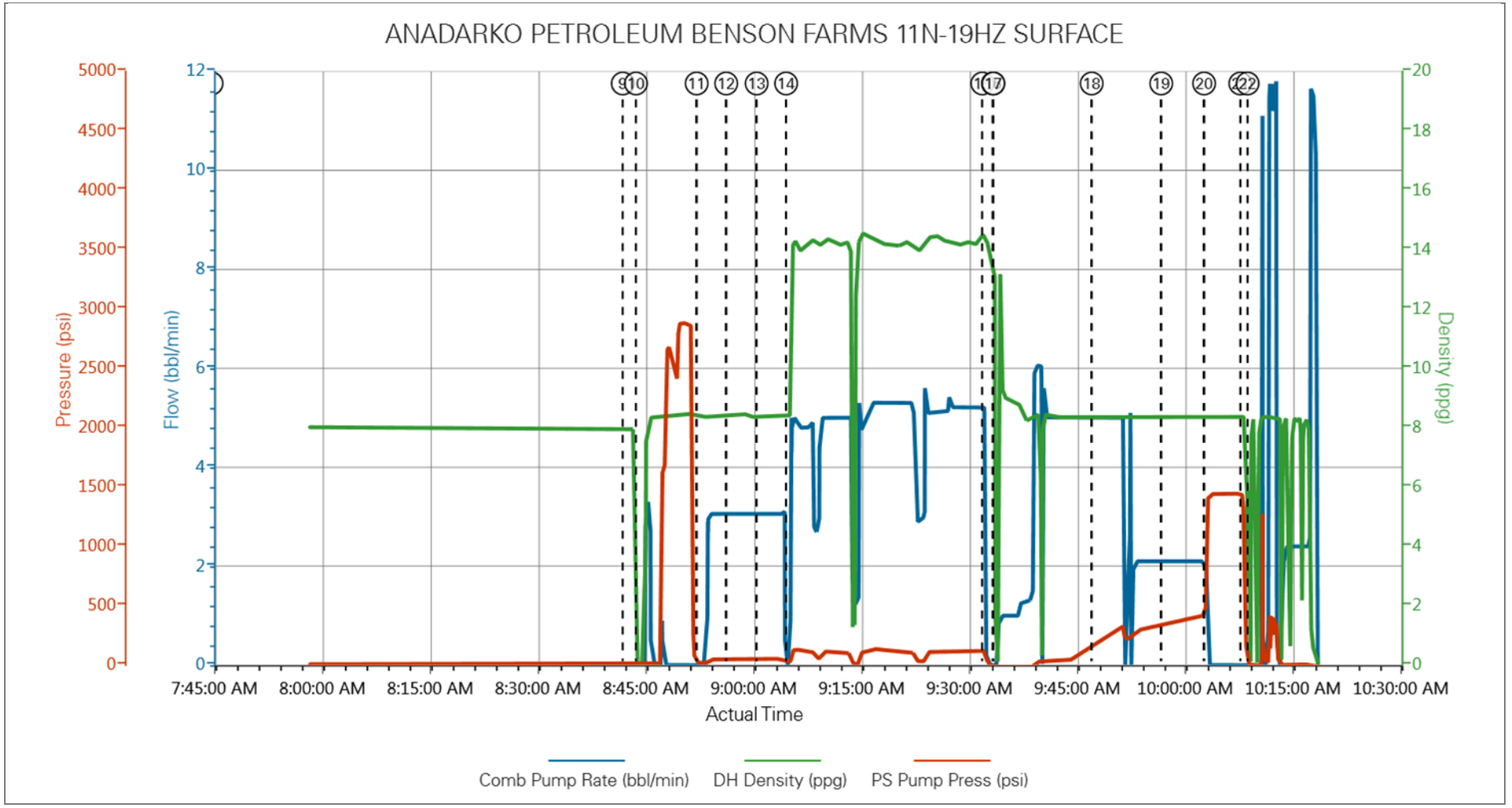
Event	21	Check Floats	Check Floats	6/6/2014	10:08:05	USER	0.00	1059.00	8.34	FLOATS HELD .5 BBLS BACK
Event	22	End Job	End Job	6/6/2014	10:09:05	COM7	0.00	-12.00	8.09	THANKS AARON SMITH AND CREW
Event	23	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	6/6/2014	10:32:20	USER				

2.0 Custom Graphs

2.1 Custom Graph



2.2 Custom Graph



3.0 Appendix