

HALLIBURTON

iCem[®] Service

Post Job Report

ANADARKO PETROLEUM CORP - EBUS

For: ALLEN SEACREST

Date: Friday, June 13, 2014

Benson Farms 14C-19HZ Surface

BENSON FARMS

Case 1

Sincerely,

Derek Trier

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1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Benson Farms 14C-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	06/12	1930	
On Location	06/13	0001	
Job Started		0335	
Job Completed		0508	
Departed Location		0530	

1.2 Cementing Job Summary

Sold To #: 300466		Ship To #: 3472983		Quote #:		Sales Order #: 0901417929				
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: ALLEN SEACREST						
Well Name: BENSON FARMS			Well #: 14C-19HZ		API/UWI #: 05-123-39337-00					
Field: WATTENBERG		City (SAP): LONGMONT		County/Parish: WELD		State: COLORADO				
Legal Description: SE SE-23-3N-68W-677FSL-72FEL										
Contractor:				Rig/Platform Name/Num: Majors 42						
Job BOM: 7521										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HB47901				Srvc Supervisor: Aaron Smith						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type					BHST					
Job depth MD		1234ft			Job Depth TVD		1234			
Water Depth					Wk Ht Above Floor		6			
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	1223		0
Open Hole Section			13.5				0	1234		0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	9.625					Top Plug	9.625	1	HES	
Float Shoe	9.625	1	SSII	1223		Bottom Plug	9.625		HES	
Float Collar	9.625	1	SSII	1182		SSR plug set	9.625		HES	
Insert Float	9.625					Plug Container	9.625	1	HES	
	9.625					Centralizers	9.625	10	HES	
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	462	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	42 ft						
Comment									

1.3 Job Overview

		Units	Description
1	Surface temperature at time of job	°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	92
15	Job displaced by	Rig/HES	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

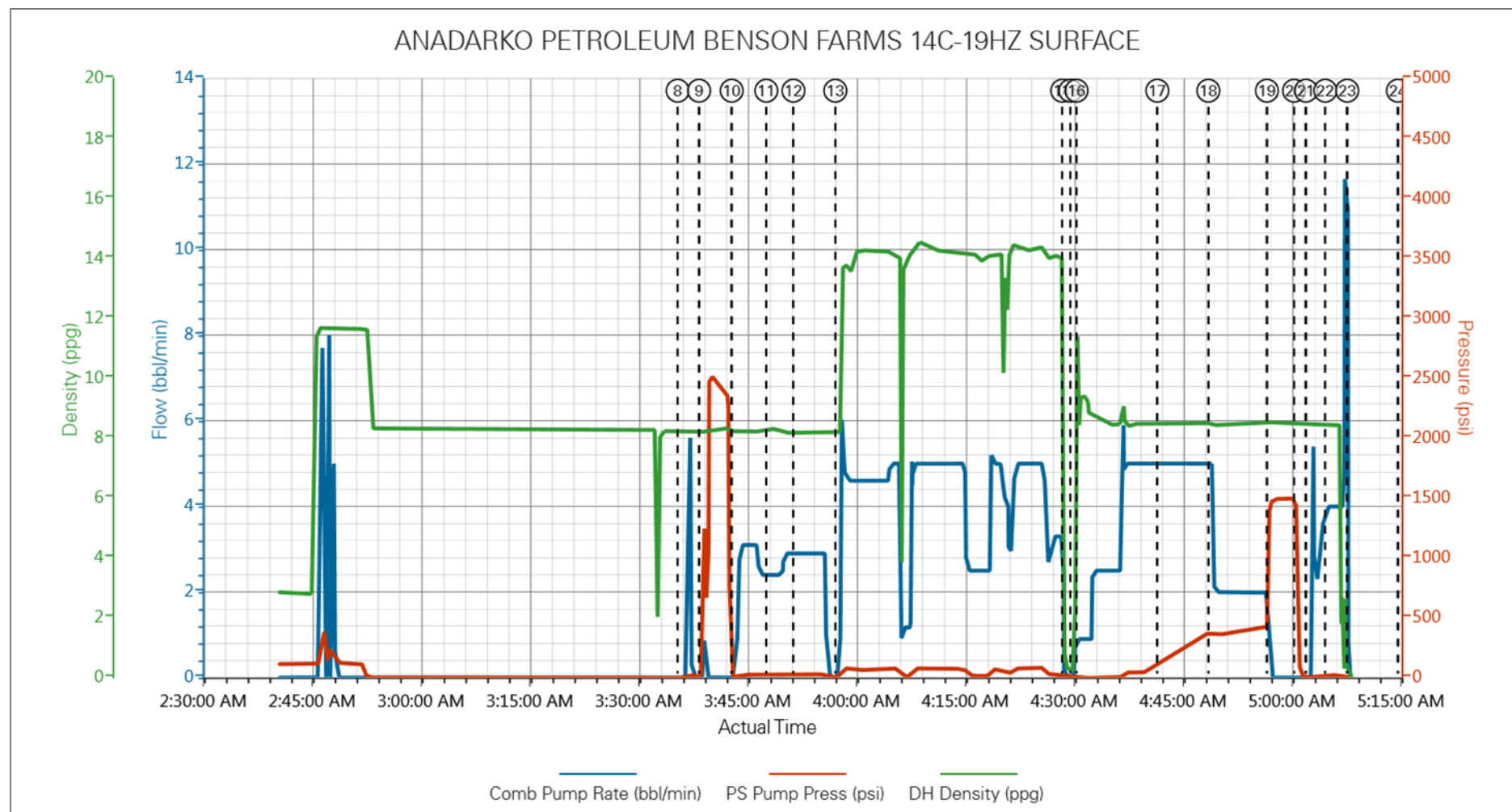
1.4 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	DH Density (ppg)	Comment
Event	1	Call Out	Call Out	6/12/2014	19:30:00	USER				CALLED OUT BY COORDINATORS FOR O/L @ 000
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	6/12/2014	23:00:00	USER				JOURNEY MANAGEMENT MEETING PRIOR TO DEPARTURE
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	6/12/2014	23:15:00	USER				
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	6/13/2014	00:00:01	USER				WITH ALL EQUIPMENT AND MATERIALS, RIG STILL RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	6/13/2014	00:15:00	USER				
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/13/2014	01:45:00	USER				WITH CUSTOMER REP AND RIG CREW
Event	7	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/13/2014	02:00:00	USER				
Event	8	Start Job	Start Job	6/13/2014	03:35:46	COM7	0.00	-2.00	8.17	
Event	9	Test Lines	Test Lines	6/13/2014	03:38:43	COM7	0.00	2.00	8.18	@ 2500 PSI
Event	10	Pump Spacer 1	Pump Spacer 1	6/13/2014	03:43:13	COM7	0.00	0.00	8.29	10 BBLS FRESH WATER
Event	11	Pump Spacer 2	Pump Spacer 2	6/13/2014	03:47:59	COM7	2.40	18.00	8.34	12 BBLS MUD FLUSH
Event	12	Pump Spacer 1	Pump Spacer 1	6/13/2014	03:51:43	COM7	2.90	23.00	8.18	10 BBLS FRESH WATER
Event	13	Pump Cement	Pump Cement	6/13/2014	03:57:30	COM7	0.00	3.00	8.17	126 BBLS, 462 SKS @ 14.2 PPG, 1.54 YIELD, 7.64 GAL/SK
Event	14	Drop Top Plug	Drop Top Plug	6/13/2014	04:28:45	COM7	0.00	5.00	0.29	PRE-LOADED HWE TOP PLUG IN PLUG CONTAINER VERIFIED BY CUSTOMER REP
Event	15	Shutdown	Shutdown	6/13/2014	04:29:52	COM7	0.00	0.00	0.21	
Event	16	Pump Displacement	Pump Displacement	6/13/2014	04:30:43	COM7	0.90	-3.00	9.39	92 BBLS FRESH WATER
Event	17	Other	Spacer Returns to Surface	6/13/2014	04:41:51	COM7				@45 BBLS DISPLACEMENT 32 BBLS TO SURFACE
Event	18	Other	Cement Returns to Surface	6/13/2014	04:48:53	COM7	5.00	393.00	8.49	@77 BBLS DISPLACEMENT 15 BBLS TO SURFACE

Event	19	Bump Plug	Bump Plug	6/13/2014	04:56:57	COM7	0.00	1464.00	8.58	@1000 PSI OVER, FINAL CIRCULATING PRESSURE 386, FINAL BUMP 1465 PSI
Event	20	Check Floats	Check Floats	6/13/2014	05:00:42	USER	0.00	796.00	8.49	FLOATS GOOD, 2 BBLS BACK
Event	21	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/13/2014	05:02:20	USER	0.00	2.00	8.47	
Event	22	Rig-Down Equipment	Rig-Down Equipment	6/13/2014	05:05:00	USER	4.00	21.00	8.41	
Event	23	End Job	End Job	6/13/2014	05:08:01	COM7				THANKS AARON SMITH AND CREW
Event	24	Rig-Down Completed	Rig-Down Completed	6/13/2014	05:15:00	USER				
Event	25	Depart Location Safety Meeting	Depart Location Safety Meeting	6/13/2014	05:20:00	USER				JOURNEY MANAGEMENT MEETING PRIOR TO DEPARTURE
Event	26	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	6/13/2014	05:30:00	USER				

2.0 Custom Graphs

2.1 Custom Graph



3.0 Appendix

Insert Planned Pump Schedule from Proposal or actual Job Procedure built for job