HALLIBURTON

iCem® Service

ANADARKO PETROLEUM CORP - EBUS

For: Allen Secrest
Date: Tuesday, June 17, 2014

Benson Farms 33N-23HZ

Sincerely,

Mark Dean & Crew

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1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Benson Farms 33N-23HZ** 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	6/16/2014	17:30:34	MT
On Location	6/16/2014	22:30:28	MT
Job Started	6/17/2014	02:20:05	MT
Job Completed	6/17/2014	03:58:27	MT
Departed Location	6/17/2014	05:30:40	MT

1.2 Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300466	**Ship To #:** 3473001	**Quote #:**	**Sales Order #:** 0901418217
Customer: ANADARKO PETROLEUM CORP - EBUS		**Customer Rep:** Allen Secrest	
Well Name: BENSON FARMS	**Well #:** 33N-23HZ		**API/UWI #:** 05-123-39338-00
Field: WATTENBERG	**City (SAP):** LONGMONT	**County/Parish:** WELD	**State:** COLORADO
Legal Description: SE SE-23-3N-68W-767FSL-71FEL			
Contractor:		**Rig/Platform Name/Num:** Majors 42	
Job BOM: 7521			
Well Type: HORIZONTAL GAS			
Sales Person: HALAMERICA\HX41066		**Srvc Supervisor:** Mark Dean	

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type			**BHST**		
Job depth MD	1237ft		**Job Depth TVD**		
Water Depth			**Wk Ht Above Floor**	3 ft	
Perforation Depth (MD)	**From**		**To**		

Well Data

Description	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	1237		
Open Hole Section			13.5				0	1237		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		1237	Top Plug	9.625	1	HES
Float Shoe	9.625	1			Bottom Plug	9.625		HES
Float Collar	9.625	1			SSR plug set	9.625	1	HES
Insert Float	9.625	1			Plug Container	9.625	1	HES
Stage Tool	9.625	1			Centralizers	9.625	1	HES

Miscellaneous Materials

Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty		Conc	
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size		Qty	

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	Fresh Water Spacer	Fresh Water Spacer	10	bbl	8.33				

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	463	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	91	bbl	8.33				

Cement Left In Pipe	Amount	39 ft	Reason	Shoe Joint
Comment				

HALLIBURTON

Summary Report

Crew:

Job Start Date: 6/17/2014

Sales Order #: 0901418217
WO #: 0901418217
PO/AFE #: NA

Customer:	ANADARKO PETROLEUM CORP - EBUS	**Field:**	WATTENBERG	**Job Type:**	CMT SURFACE CASING BOM
UWI / API Number:	05-123-39338-00	**County/Parish:**	WELD	**Service Supervisor:**	Mark Dean
Well Name:	BENSON FARMS	**State:**	COLORADO		
Well No:	33N-23HZ	**Latitude:**	40.206437		
		Longitude:	-104.960980	**Cust Rep Name:**	Allen Secrest
		Sect / Twn / Rng:	23/3/68	**Cust Rep Phone #:**	

Remarks:

The Information Stated Herein Is Correct	Customer Representative Signature	Date
	Customer Representative Printed Name	

1.3 Planned Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Fresh Water Spacer	8.33	1.7	10.0 bbl	10.0 bbl
1	1	Spacer	Mud Flush	8.40	2.0	12.0 bbl	12.0 bbl
1	1	Spacer	Fresh Water Spacer	8.33	3.0	10.0 bbl	10.0 bbl
1	2	Cement Slurry	SwiftCem B2	14.2	5.5	463.0 sacks	463.0 sacks

1.4 Job Overview

		Units	Description
1	Surface temperature at time of job	^{o}F	
2	Mud type (OBM, WBM, SBM, Water, Brine)	-	
3	Actual mud density	lb/gal	
4	Time circulated before job	HH:MM	
5	Mud volume circulated	Bbls	
6	Rate at which well was circulated	Bpm	
7	Pipe movement during hole circulation	Y/N	N
8	Rig pressure while circulating	Psi	
9	Time from end mud circulation to start of job	HH:MM	
10	Pipe movement during cementing	Y/N	N
11	Calculated displacement	Bbls	91
12	Job displaced by	Rig/HES	HES
13	Annular before job)?	Y/N	N
14	Annular flow after job	Y/N	N
15	Length of rat hole	Ft	
16	Units of gas detected while circulating	Units	
17	Was lost circulation experienced at any time ?	Y/N	N

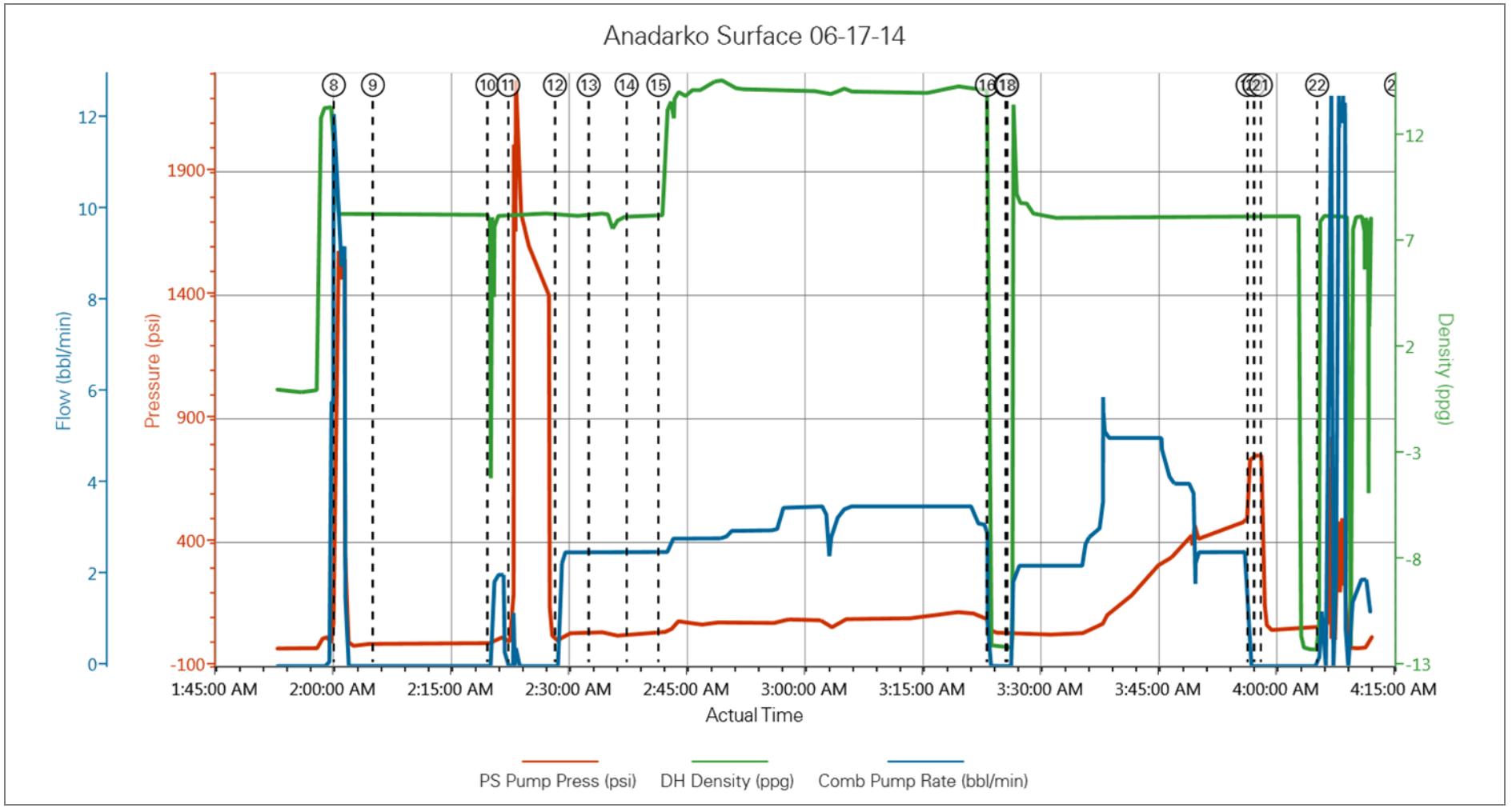
1.5 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pass-Side Pump Pressure *(psi)*	Downhole Density *(ppg)*	Combined Pump Rate *(bbl/min)*	Comment
Event	1	Call Out	Call Out	6/16/2014	17:30:34	USER				Crew called @ 17:30
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/16/2014	21:30:35	USER				Discussed load checks, planned route and safe driving
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	6/16/2014	21:45:36	USER				Departed yard in convoy
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	6/16/2014	22:30:28	USER				Requested on location @ 23:00
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	6/16/2014	22:35:29	USER				Rig running casing. Discussed spotting, PPE and red zones
Event	6	Rig-Up Equipment	Rig-Up Equipment	6/16/2014	22:45:30	USER				Rigged up safely
Event	7	Wait on Customer or Customer Sub-Contractor Equip - Start Time	Wait on Customer or Customer Sub-Contractor Equip - Start Time	6/16/2014	23:30:32	USER				Waiting for rig to finish running Casing
Event	8	Wait on Customer or Customer Sub-Contractor Equipment - End Time	Wait on Customer or Customer Sub-Contractor Equipment - End Time	6/17/2014	02:00:33	USER	1571.00	8.33	9.80	Rig finished running Casing. Ready for HES
Event	9	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/17/2014	02:05:31	USER	-11.00	8.28	0.00	Discussed Job procedure and safety with Customer & Crew
Event	10	Start Job	Start Job	6/17/2014	02:20:05	COM1	-8.00	6.65	0.00	Primed pump and lines
Event	11	Test Lines	Test Lines	6/17/2014	02:22:44	COM1	-3.00	8.30	0.00	Tested lines to 2000 psi (Pressure Held)
Event	12	Pump Spacer 1	Pump Water	6/17/2014	02:28:40	COM1	3.00	8.27	0.00	Pumped 10 bbl of water ahead
Event	13	Pump Spacer 2	Pump Mud Flush III	6/17/2014	02:32:57	COM1	36.00	8.29	2.50	Pumped 12 bbl of Mud Flush III
Event	14	Pump Spacer 1	Pump Water	6/17/2014	02:37:47	COM1	32.00	8.27	2.50	Pumped 10 bbl of Water behind

Event	15	Pump Lead Cement	Pump Lead Cement	6/17/2014	02:41:49	COM1	36.00	8.28	2.50	Pumped 127 bbl of CMT @ 14.2# (463 sks)
Event	16	Shutdown	Shutdown	6/17/2014	03:23:36	COM1	41.00	-12.05	0.00	Shutdown to drop top plug
Event	17	Drop Top Plug	Drop Top Plug	6/17/2014	03:26:00	COM1	30.00	-12.04	0.00	Released top plug
Event	18	Pump Displacement	Pump Displacement	6/17/2014	03:26:11	COM1	29.00	-12.06	0.00	Pumped 91.5 bbl of fresh water displacement (first 10 wash up)
Event	19	Bump Plug	Bump Plug	6/17/2014	03:56:45	COM1	746.00	8.22	0.00	Bumped plug @ 400 psi (500 psi over)
Event	20	Cement Returns to Surface	Cement Returns to Surface	6/17/2014	03:57:37	USER	753.00	8.25	0.00	6 bbl of CMT to Surface
Event	21	Other	Check Floats	6/17/2014	03:58:27	COM1	149.00	8.23	0.00	.5 bbl back to truck
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	6/17/2014	04:05:38	USER	59.00	8.30	1.20	Discussed trapped pressure and Hazards
Event	23	Rig-Down Equipment	Rig-Down Equipment	6/17/2014	04:15:39	USER				Rigged down safely
Event	24	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	6/17/2014	05:30:40	USER				Job completed successfully by M. Dean & Crew

2.0 Custom Graphs

2.1 Custom Graph



3.0 Appendix

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