

# HALLIBURTON

iCem<sup>®</sup> Service

## Post Job Report

**ANADARKO PETROLEUM CORP - EBUS**

**For:**

Date: Monday, June 09, 2014

**Barefoot 33C-25HZ Surface**

Case 1

Sincerely,

**Derek Trier**

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## 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **Barefoot 33C-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
<b>Requested Time On Location</b>	6/9	20:30	
<b>Called Out</b>	6/9	15:30	
<b>On Location</b>	6/9	20:05	
<b>Job Started</b>	6/9	22:02	
<b>Job Completed</b>	6/9	23:30	
<b>Departed Location</b>	6/10	00:20	

## 1.2 Cementing Job Summary

<b>Sold To #:</b> 300466		<b>Ship To #:</b> 3467628		<b>Quote #:</b>		<b>Sales Order #:</b> 0901408436								
<b>Customer:</b> ANADARKO PETROLEUM CORP - EBUS				<b>Customer Rep:</b> RANDY CASE										
<b>Well Name:</b> BAREFOOT			<b>Well #:</b> 33C-25 HZ			<b>API/UWI #:</b> 05-123-39233-00								
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> LONGMONT		<b>County/Parish:</b> WELD			<b>State:</b> COLORADO							
<b>Legal Description:</b> NE SE-25-3N-68W-1989FSL-470FEL														
<b>Contractor:</b>				<b>Rig/Platform Name/Num:</b> Majors 29										
<b>Job BOM:</b> 7521														
<b>Well Type:</b> HORIZONTAL GAS														
<b>Sales Person:</b> HALAMERICA\HX46524					<b>Srvc Supervisor:</b> Nicholas Vigil									
<b>Job</b>														
<b>Formation Name</b>														
<b>Formation Depth (MD)</b>		<b>Top</b>			<b>Bottom</b>									
<b>Form Type</b>					<b>BHST</b>									
<b>Job depth MD</b>		1754ft			<b>Job Depth TVD</b>									
<b>Water Depth</b>					<b>Wk Ht Above Floor</b>									
<b>Perforation Depth (MD)</b>		2.0 rom			<b>To</b>									
<b>Well Data</b>														
<b>3.0</b>	<b>Descripti on</b>	<b>New / Used</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>			
	Casing	3	9.625	8.921	36		J-55	0	1754	0	1226			
	Open Hole Section			13.5				0	1754	0	1236			
<b>Tools and Accessories</b>														
<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	<b>Depth ft</b>		<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>					
Guide Shoe	9.625	1				Top Plug	9.625	1	HES					
Float Shoe	9.625	1		1754		Bottom Plug	9.625		HES					
Float Collar	9.625	1		1702		SSR plug set	9.625		HES					
Insert Float	9.625					Plug Container	9.625	1	HES					
4.0 Stage Tool	9.625					Centralizers	9.625		HES					
<b>Miscellaneous Materials</b>														
<b>Gelling Agt</b>	<b>5.0</b>	<b>Conc</b>	<b>6.0</b>	<b>Surfactant</b>	<b>7.0</b>	<b>Conc</b>	<b>8.0</b>	<b>Acid Type</b>	<b>9.0</b>	<b>Qty</b>	<b>10.0</b>	<b>11.0 onc</b>	<b>12.0</b>	
<b>Treatment Fld</b>	<b>13.0</b>	<b>Conc</b>	<b>14.0</b>	<b>15.0 tor</b>	<b>Inhibi</b>	<b>16.0</b>	<b>17.0 onc</b>	<b>18.0</b>	<b>Sand Type</b>	<b>19.0</b>	<b>20.0 ize</b>	<b>21.0</b>	<b>22.0 ty</b>	<b>23.0</b>
<b>Fluid Data</b>														
<b>Stage/Plug #: 1</b>														
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>			<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/mi n</b>	<b>Total Mix Fluid Gal</b>			

1	Mud Flush III (Powder)	Mud Flush III	12	bbbl	8.4				
42 gal/bbl		24.0 FRESH WATER							
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	679	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	131.7	bbbl	8.33				
25.0	<b>Cement Left In Pipe</b>	<b>Amount</b>	40 ft	26.0	<b>Reason</b>	27.0	Shoe Joint		
<b>Comment</b> 22 BBL OF CEMENT TO SURFACE									

**27.1 Job Overview**

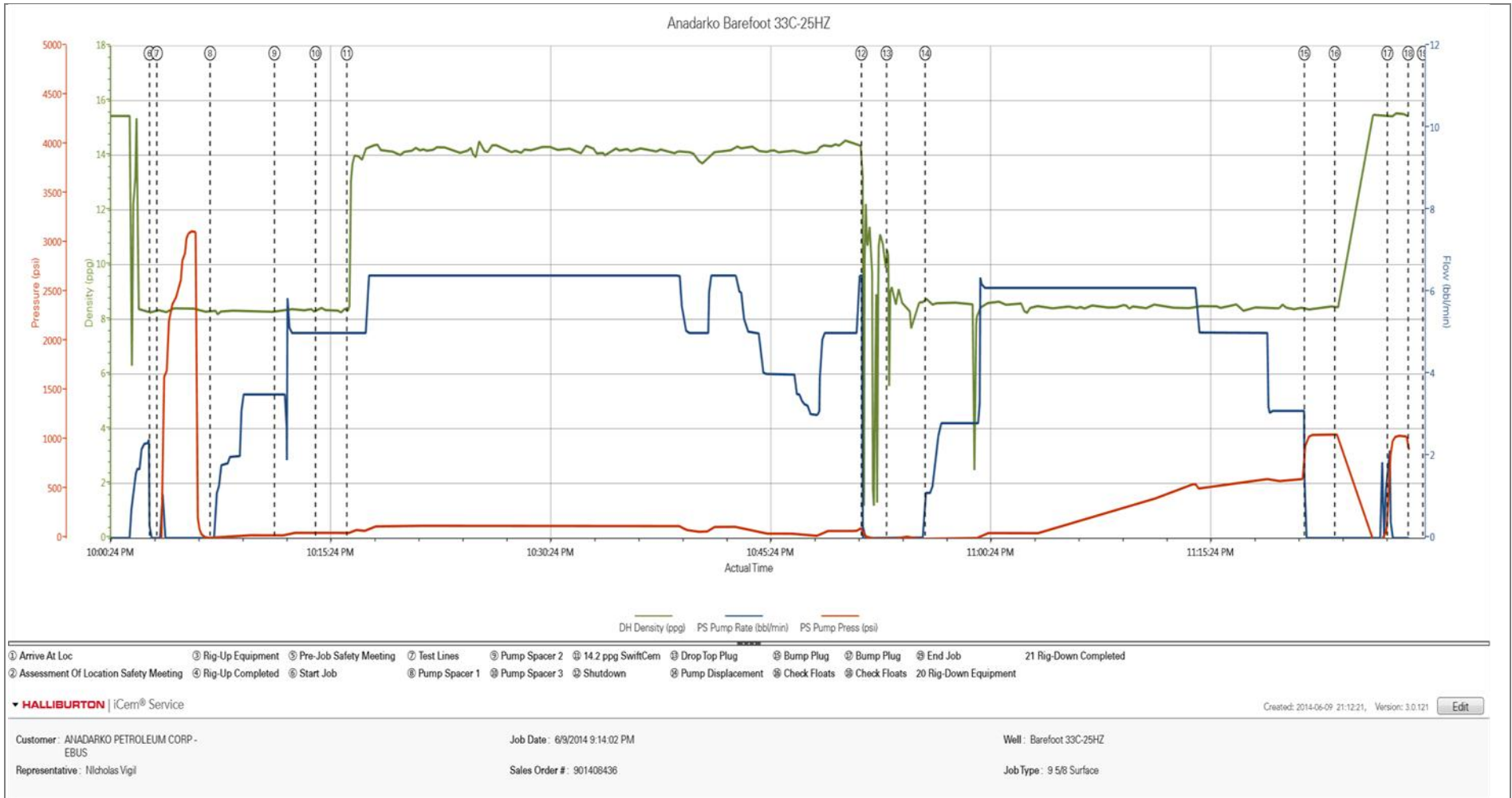
		<b>Units</b>	<b>Description</b>
<b>1</b>	Surface temperature at time of job	°F	55
<b>2</b>	Mud type (OBM, WBM, SBM, Water, Brine)	-	WBM
<b>3</b>	Actual mud density	lb/gal	8.8
<b>4</b>	Actual mud Plastic Viscosity (PV)	cP	
<b>5</b>	Actual mud Yield Point (YP)	lb <sub>r</sub> /100ft <sup>2</sup>	
<b>6</b>	Actual mud 30 min Gel Strength	lb <sub>r</sub> /100ft <sup>2</sup>	
<b>7</b>	Time circulated before job	HH:MM	1 HOUR
<b>8</b>	Mud volume circulated	Bbls	
<b>9</b>	Rate at which well was circulated	Bpm	
<b>10</b>	Pipe movement during hole circulation	Y/N	NO
<b>11</b>	Rig pressure while circulating	Psi	
<b>12</b>	Time from end mud circulation to start of job	HH:MM	
<b>13</b>	Pipe movement during cementing	Y/N	NO
<b>14</b>	Calculated displacement	Bbls	131
<b>15</b>	Job displaced by	Rig/HES	HES
<b>16</b>	Annular flow before job	Y/N	NO
<b>17</b>	Annular flow after job	Y/N	NO
<b>18</b>	Length of rat hole	Ft	10'
<b>19</b>	Units of gas detected while circulating	Units	
<b>20</b>	Was lost circulation experienced at any time?	Y/N	NO

## 27.2 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Rate (bbl/min)	PS Pump Press (psi)	Comment
Event	1	Arrive At Loc	Arrive At Loc	6/9/2014	20:05:00	USER				On location time was 2030, Rig had around 8 joints of casing left to run.
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	6/9/2014	20:10:00	USER				Hazard hunt, Rig up safety meeting, Water test
Event	3	Rig-Up Equipment	Rig-Up Equipment	6/9/2014	20:25:00	USER				
Event	4	Rig-Up Completed	Rig-Up Completed	6/9/2014	21:00:00	USER				
Event	5	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/9/2014	21:40:00	USER	15.43	0.00	-1.00	Held safety meeting with all personnel on location.
Event	6	Start Job	Start Job	6/9/2014	22:03:11	COM1	8.29	0.00	-27.00	
Event	7	Test Lines	Test Lines	6/9/2014	22:03:41	COM1	8.35	0.00	-12.00	Pressure tested lines to 3000 psi.
Event	8	Pump Spacer 1	Pump Spacer 1	6/9/2014	22:07:19	COM1	8.31	3.50	28.00	Water Spacer
Event	9	Pump Spacer 2	Pump Spacer 2	6/9/2014	22:11:42	COM1	8.29	5.00	53.00	Mud Flush
Event	10	Pump Spacer 1	Pump Spacer 3	6/9/2014	22:14:30	COM1	8.36	5.00	52.00	Water Spacer
Event	11	Pump Cement	14.2 ppg SwiftCem	6/9/2014	22:16:38	COM1	14.2	6.5	115.00	679 sks, weight was verified by scale.
Event	12	Shutdown	Shutdown	6/9/2014	22:51:43	COM1	1.70	0.20	59.00	
Event	13	Drop Top Plug	Drop Top Plug	6/9/2014	22:53:26	COM1	10.00	0.00	0.00	Plug was pre loaded.
Event	14	Pump Displacement	Pump Displacement	6/9/2014	22:56:04	COM1	8.33	6.5	250.00	Displaced with fresh water.
Event	15	Bump Plug	Bump Plug	6/9/2014	23:21:55	COM1	8.33	3.00	550.00	Bumped plug 500 psi over final lift bringing our pressure to 1050 psi.
Event	16	Other	Check Floats	6/9/2014	23:23:59	COM1	8.44	0.00	1051.00	Floats held.
Event	17	Other	Bump Plug	6/9/2014	23:27:34	COM1	8.33	2.10	1000.00	Bumped plug to 1000 psi again per ENGINEER.
Event	18	Other	Check Floats	6/9/2014	23:29:00	USER				Floats still held.
Event	19	End Job	End Job	6/9/2014	23:30:00	USER				Rig down safety meeting.
Event	20	Rig-Down Equipment	Rig-Down Equipment	6/9/2014	23:35:00	USER				
Event	21	Rig-Down Completed	Rig-Down Completed	6/10/2014	00:15:00	USER				

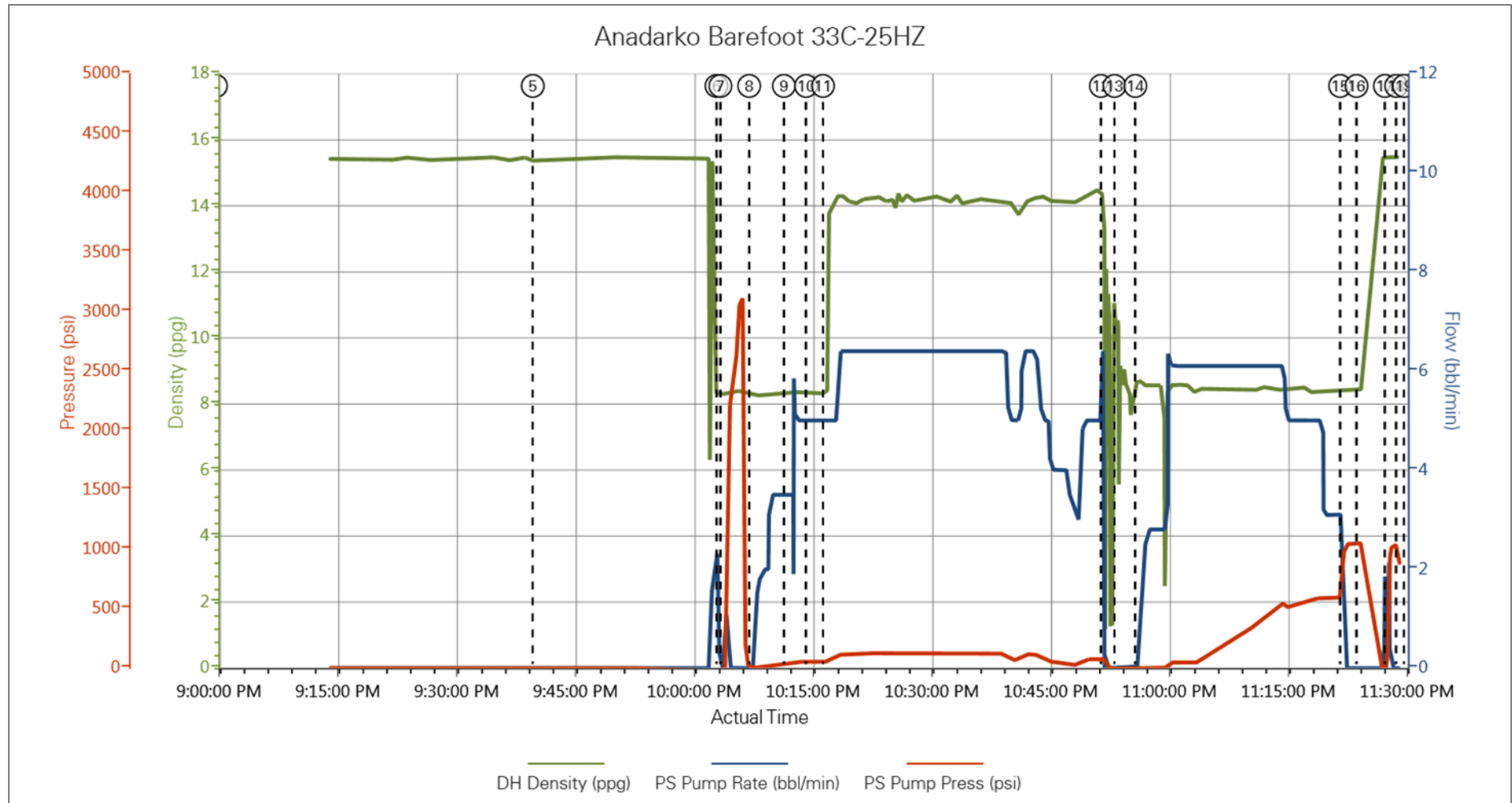
## 28.0 Attachments

### 28.1 Anadarko Barefoot 33C-25HZ.png



## 29.0 Custom Graphs

### 29.1 Custom Graph



30.0 Appendix

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