

**ANADARKO PETROLEUM CORP - EBUS  
DO NOT MAIL - PO BOX 4995  
THE WOODLANDS, Texas**

Brotemarkle 4C-13HZ

Xtreme 6

## **Post Job Summary**

# **Cement Intermediate Casing**

Date Prepared: 4/18/2014  
Version: 1

Service Supervisor: BARRAS, JOSEPH

Submitted by: PRUDHOMME, JOSHUA

**HALLIBURTON**

# HALLIBURTON

## ***Pumping Schedule***

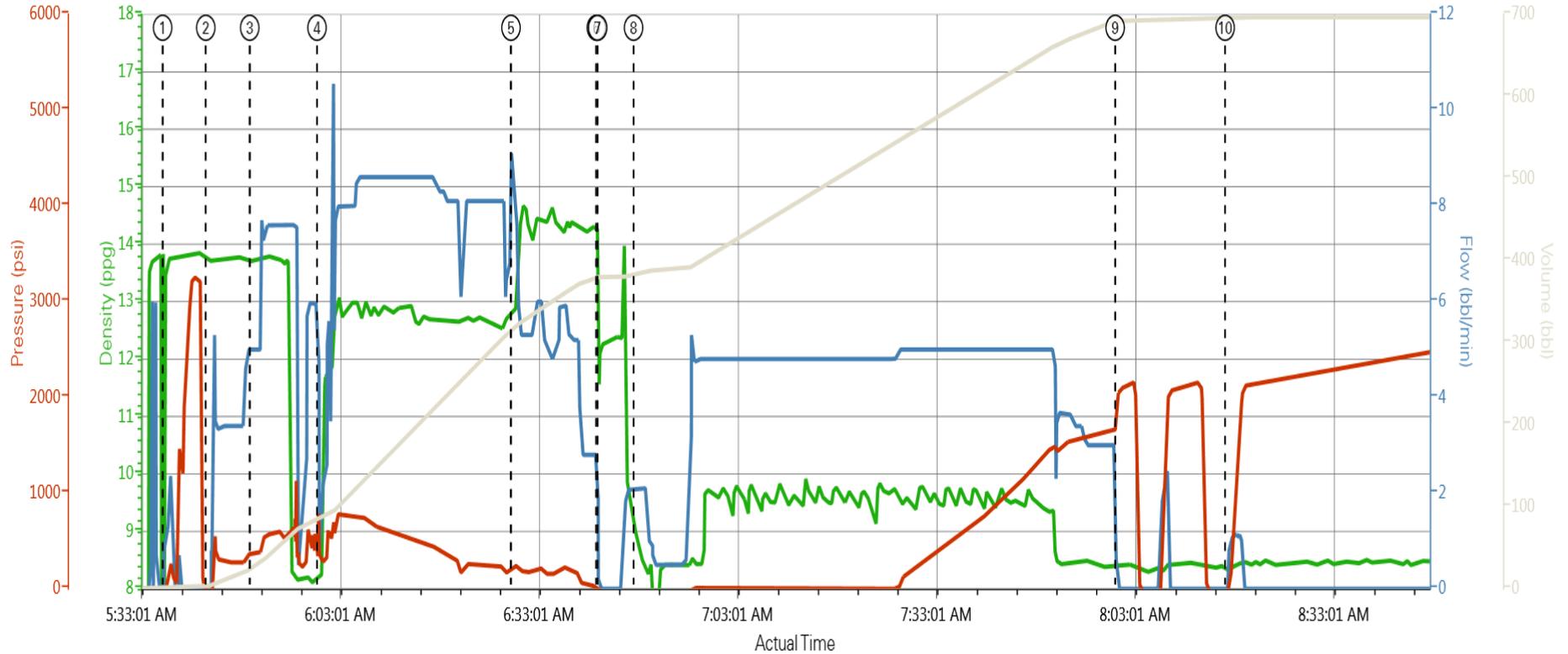
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<b>Stage /Plug #</b>	<b>Fluid #</b>	<b>Fluid Type</b>	<b>Fluid Name</b>	<b>Surface Density lbm/gal</b>	<b>Avg Rate bbl/min</b>	<b>Surface Volume</b>	<b>Downhole Volume</b>
1	1	Spacer	Water Spacer	8.34	3.5	20.0 bbl	20.0 bbl
1	2	Spacer	Mud Flush	8.40	3.5	40.0 bbl	40.0 bbl
1	3	Spacer	Water Spacer	8.34	7.0	20.0 bbl	20.0 bbl
1	4	Cement Slurry	12.7# EconoCem B1 Lead	12.7	8.0	620.0 sacks	620.0 sacks
1	5	Cement Slurry	14.4# FracCem Tail	14.4	5.0	210.0 sacks	210.0 sacks

# HALLIBURTON

## Data Acquisition

ANADARKO BROTEMARKLE 4C-13HZ 7IN



— DH Density (ppg)   
 — Comb Pump Rate (bbl/min)   
 — PS Pump Press (psi)   
 — Comb Pump Total (bbl)

- ① Start Job 13.55;1;-14;2.3      ④ Pump Lead Cement 8.12;1;267;37      ⑦ Drop Top Plug 12.27;0;-38;380.1      ⑩ Other 8.36;0;-41;694.2
- ② Pump Spacer 1 13.75;0;-32;3.8      ⑤ Pump Tail Cement 12.84;8.2;233;317.9      ⑧ Pump Displacement 8.93;2.1;-39;384.1      ⑪ End Job 8.41;0;-41;696.4
- ③ Pump Spacer 2 13.69;5;395;26.4      ⑥ Shutdown 11.86;0;-24;380.1      ⑨ Bump Plug 8.44;0;2055;892.1

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
03/08/2014 01:10		Arrive at Location from Service Center					
03/08/2014 01:25		Rig-Up Equipment					
03/08/2014 03:15		Rig-Up Completed					
03/08/2014 04:30		Safety Meeting - Pre Job					
03/08/2014 05:35		Start Job					
03/08/2014 05:36		Test Lines					test lines to 3500 psi no visible leaks
03/08/2014 05:43		Pump Spacer 1	3.5	20		374.0	rig water
03/08/2014 05:50		Pump Spacer 2	3.5	40		380.0	rig water with mud flush
03/08/2014 05:58		Pump Spacer 1	7	20		379.0	rig water
03/08/2014 06:00		Pump Lead Cement	8	53		205.0	mixed with rig water @12.7 ppg 620 sks of econocem/1.89 yield/10.03 gal/sk
03/08/2014 06:30		Pump Tail Cement	5	208		462.0	mixed with rig water @ 14.7 ppg /210 sks of fracem /1.4 yield /5.98 gal/sk
03/08/2014 06:43		Shutdown					
03/08/2014 06:44		Drop Top Plug					preloaded and witnessed by company man
03/08/2014 06:45		Pump Displacement	6	301		1678.0	rig mud @ 10.1 ppg with cement to surface @ 280 bbl into displacement
03/08/2014 08:00		Bump Plug	3			2080.0	
03/08/2014 08:05		Check Floats					floats did not hold flowing back consistent about a pencil size stream/shut in well with cement head
03/08/2014 08:20		Other					casing test for 30 min.
03/08/2014 08:45		End Job					
03/08/2014 08:50		Rig-Down Equipment					
03/08/2014 10:00		Return to Service Center from Job					

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300466		<b>Ship To #:</b> 3117159		<b>Quote #:</b>		<b>Sales Order #:</b> 901175805	
<b>Customer:</b> ANADARKO PETROLEUM CORP - EBUS				<b>Customer Rep:</b> Xtreme 6, Xtreme 6			
<b>Well Name:</b> Brotemarkle			<b>Well #:</b> 4C-13HZ		<b>API/UWI #:</b> 05-123-36518		
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> PLATTEVILLE		<b>County/Parish:</b> Weld		<b>State:</b> Colorado	
<b>Contractor:</b> Anadarko			<b>Rig/Platform Name/Num:</b> Xtreme 6				
<b>Job Purpose:</b> Cement Intermediate Casing							
<b>Well Type:</b> Development Well				<b>Job Type:</b> Cement Intermediate Casing			
<b>Sales Person:</b> GREGORY, JON			<b>Srvc Supervisor:</b> BARRAS, JOSEPH			<b>MBU ID Emp #:</b> 405168	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ALVARADO, JOSE Angel	0.0	505918	BARRAS, JOSEPH Corey	0.0	405168	ROOD, TRAVIS James	0.0	561971
TORREY, SPENCER Kenneth	0.0	549837						

### Equipment

HES Unit #	Distance-1 way						
10248053C	20 mile	10982754C	20 mile	11338223	20 mile	11362287C	20 mile
11527037	20 mile						

### Job

### Job Times

Formation Name				Date	Time	Time Zone
<b>Formation Depth (MD)</b>	<b>Top</b>	<b>Bottom</b>		<b>Called Out</b>		
<b>Form Type</b>	BHST			<b>On Location</b>		
<b>Job depth MD</b>	7961. ft	<b>Job Depth TVD</b>	7500. ft	<b>Job Started</b>	08 - Mar - 2014	05:35 MST
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	5. ft	<b>Job Completed</b>	08 - Mar - 2014	08:45 MST
<b>Perforation Depth (MD)</b>	<b>From</b>	<b>To</b>		<b>Departed Loc</b>	08 - Mar - 2014	10:00 MST

Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Water Spacer		20.0	bbl	8.34			3.5		
2	Mud Flush		40.0	bbl	8.4			3.5		
3	Water Spacer		20.0	bbl	8.34			7.0		
4	12.7# EconoCem B1 Lead	ECONOCEM (TM) SYSTEM (452992)	620	sacks	12.7	1.89	10.03	8.0	10.03	
	10.03 Gal	FRESH WATER								
5	14.4# FracCem Tail	FRACCEM (TM) SYSTEM (452963)	210	sacks	14.4	1.4	5.98	5.0	5.98	
	5.98 Gal	FRESH WATER								
Calculated Values			Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad		
Top Of Cement		5 Min		Cement Returns		80.0	Actual Displacement		301.0	Treatment
Frac Gradient		15 Min		Spacers		21.0	Load and Breakdown		Total Job	
Rates										
Circulating		Mixing		Displacement		Avg. Job				
Cement Left In Pipe		Amount	0 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID			
The Information Stated Herein Is Correct				Customer Representative Signature						

