

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

Ziemer 35C-5HZ

**Major 42**

## **Post Job Summary**

# **Cement Surface Casing**

Prepared for:  
Date Prepared: 10/3/2013  
Version: 1

Service Supervisor: BULINSKI, MATTHEW

Submitted by: FINNEY, SEAN

**HALLIBURTON**

# HALLIBURTON

## Wellbore Geometry

---

Job Tubulars					MD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	
Casing	9 5/8" Surface Casing	9.63	8.921	36.00	0.00	900.00	42.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	900.00	0.00

# HALLIBURTON

## 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	2.00	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	4.00	12.0 bbl	12.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.20	4.50	372.0 sacks	372.0 sacks

## Fluids Pumped

**Stage/Plug # 1 Fluid 1:** Fresh Water Spacer  
DUMMY MUD / FLUSH / SPACER SBC MATERIAL

Fluid Density: 8.33 lbm/gal  
Fluid Volume: 10.00 bbl  
Pump Rate: 2.00 bbl/min

**Stage/Plug # 1 Fluid 2:** Mud Flush  
DUMMY MUD / FLUSH / SPACER SBC MATERIAL  
42 gal/bbl Mud Flush III  
3.5 lbm/bbl Mud Flush III

Fluid Density: 8.40 lbm/gal  
Fluid Volume: 12.00 bbl  
Pump Rate: 4.00 bbl/min

**Stage/Plug # 1 Fluid 3:** SwiftCem B2  
SWIFTCEM (TM) SYSTEM

Fluid Weight: 14.20 lbm/gal  
Slurry Yield: 1.55 ft<sup>3</sup>/sack  
Total Mixing Fluid: 7.68 Gal  
Surface Volume: 372.0 sacks  
Sacks: 372.0 sacks  
Calculated Fill: 900.00 ft  
Calculated Top of Fluid: 0.00 ft

# HALLIBURTON

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
09/27/2013 20:00		Arrive at Location from Service Center					Arrived to location 4hrs early and rig is tripping out DP.. Rig finished running Csg at 2300. Circulated to midnight
09/27/2013 20:15		Assessment Of Location Safety Meeting					Hazard Hunt on location before spotting in trucks
09/27/2013 20:30		Safety Meeting - Pre Rig-Up					JSA on rigging up bulk trucks and iron to rig
09/27/2013 21:20		Rig-Up Completed					
09/27/2013 21:45		Rig-Up Equipment					
09/28/2013 00:15		Safety Meeting - Pre Job					JSA with company man, rig hands, and HES hands on pump schedule
09/28/2013 00:29		Start Job					
09/28/2013 00:34		Test Lines					3000psi Pressure test lines to rig floor
09/28/2013 00:38		Pump Spacer 1	2	10		20.0	10bbls H2O spacer
09/28/2013 00:45		Pump Spacer 2	4	12		37.0	12bbls Mud flush spacer
09/28/2013 00:50		Pump Spacer 1	5	10		90.0	10bbls H2O spacer
09/28/2013 00:53		Pump Cement	4.5	102.6		120.0	372sks Swiftcem, 14.2ppg, 1.55yield, 7.68gal/sk, Mixed with rig water and # verify 3x's by Pressurized mud scales
09/28/2013 01:20		Shutdown					
09/28/2013 01:22		Drop Top Plug					Disconnect quicklatch and drop plug
09/28/2013 01:28		Pump Displacement	5	76.5		320.0	H2O displacement, 3bbl/min first 20bbls... Good returns throughout... 15bbls Cmt to Surface
09/28/2013 01:48		Bump Plug	3			1412.0	Slowed down last 15bbls to 3bbl/min to bump... Plug landed at 370psi and brought it to 1412psi for 7mins
09/28/2013 01:56		Check Floats					Floats Held
09/28/2013 01:57		End Job					
09/28/2013 01:58		Safety Meeting - Pre Rig-Down					JSA on rigging down bulk trucks and iron from rig
09/28/2013 02:00		Rig-Down Equipment					
09/28/2013 02:45		Rig-Down Completed					
09/28/2013 02:55		Safety Meeting - Departing Location					JSA on pre-tripping trucks and driving back to Brighton yard

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300466		<b>Ship To #:</b> 3108479		<b>Quote #:</b>		<b>Sales Order #:</b> 900777971					
<b>Customer:</b> ANADARKO PETROLEUM CORP - EBUS				<b>Customer Rep:</b> Heresh, Larry							
<b>Well Name:</b> Ziemer			<b>Well #:</b> 35C-5HZ		<b>API/UWI #:</b> 05-123-37828						
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> FORT LUPTON		<b>County/Parish:</b> Weld		<b>State:</b> Colorado					
<b>Lat:</b> N 40.087 deg. OR N 40 deg. 5 min. 11.918 secs.				<b>Long:</b> W 104.688 deg. OR W -105 deg. 18 min. 42.07 secs.							
<b>Job Purpose:</b> Cement Surface Casing											
<b>Well Type:</b> Development Well				<b>Job Type:</b> Cement Surface Casing							
<b>Sales Person:</b> PLIENESS, RYAN			<b>Srvc Supervisor:</b> BULINSKI, MATTHEW			<b>MBU ID Emp #:</b> 483865					
<b>Job Personnel</b>											
<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>	<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>	<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>			
BULINSKI, MATTHEW J	0.0	483865	CARPENTER, JACOB P	0.0	499500	VIATOR, JASON R.	0.0	550394			
<b>Equipment</b>											
<b>HES Unit #</b>	<i>Distance-1 way</i>	<b>HES Unit #</b>	<i>Distance-1 way</i>	<b>HES Unit #</b>	<i>Distance-1 way</i>	<b>HES Unit #</b>	<i>Distance-1 way</i>				
10824253C	10 mile	11338223	10 mile	11605598	10 mile	11764052	10 mile				
<b>Job Hours</b>											
<b>Date</b>	<i>On Location Hours</i>	<b>Operating Hours</b>	<b>Date</b>	<i>On Location Hours</i>	<b>Operating Hours</b>	<b>Date</b>	<i>On Location Hours</i>	<b>Operating Hours</b>			
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>								
<b>Job</b>				<b>Job Times</b>							
<b>Formation Name</b>						<b>Date</b>	<b>Time</b>	<b>Time Zone</b>			
<b>Formation Depth (MD)</b>	<b>Top</b>	<b>Bottom</b>		<b>Called Out</b>		27 - Sep - 2013	19:00	MST			
<b>Form Type</b>	BHST		<b>On Location</b>		27 - Sep - 2013	20:00	MST				
<b>Job depth MD</b>	900. ft	<b>Job Depth TVD</b>		<b>Job Started</b>		28 - Sep - 2013	00:29	MST			
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>		<b>Job Completed</b>		28 - Sep - 2013	01:57	MST			
<b>Perforation Depth (MD)</b>	<i>From</i>	<i>To</i>		<b>Departed Loc</b>		28 - Sep - 2013	03:00	MST			
<b>Well Data</b>											
<i>Description</i>	<b>New / Used</b>	<b>Max pressure psig</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>
13 1/2" Open Hole Section				13.5				.	900.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	900.		
<b>Sales/Rental/3<sup>rd</sup> Party (HES)</b>											
<b>Description</b>				<b>Qty</b>	<b>Qty uom</b>	<b>Depth</b>	<b>Supplier</b>				
CMT CASING EQUIPMENT BOM				1	JOB						
MILEAGE FOR CEMENTING CREW,ZI				20	MI						
ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON				20	MI						
KIT,HALL WELD-A				1	EA						
CNTRLZR, 9 5/8"x13 3/4',#500-0963-1375				6	EA						
PLUG,CMTG, TOP,9 5/8,HWE,8.16 MIN/9.06 MA				1	EA						
<b>Description</b>				<b>Qty</b>	<b>Qty uom</b>	<b>Depth</b>	<b>Supplier</b>				

COLLAR-STOP-9 5/8"-FRICTION-HINGED						2	EA		
BASKET - CEMENT - 9-5/8 CSG X 12-1/4						1	EA		
Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	2.0	
2	Mud Flush		12.00	bbl	8.4	.0	.0	4.0	
42 gal/bbl		MUD FLUSH III - SBM (528788)							
3.5 lbm/bbl		MUD FLUSH III, 40 LB SACK (101633304)							
3	SwiftCem B2	SWIFTCEM (TM) SYSTEM (452990)	372.0	sacks	14.2	1.55	7.68	4.5	7.68
7.68 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating			Mixing			Displacement			Avg. Job
Cement Left In Pipe		Amount	42 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					

