

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

Howard 3N-21HZ

**MAJORS 42**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 6/25/13  
Version: 1

Service Supervisor: BULINSKI, MATTHEW

Submitted by: LANSDALE, JUSTIN

# HALLIBURTON

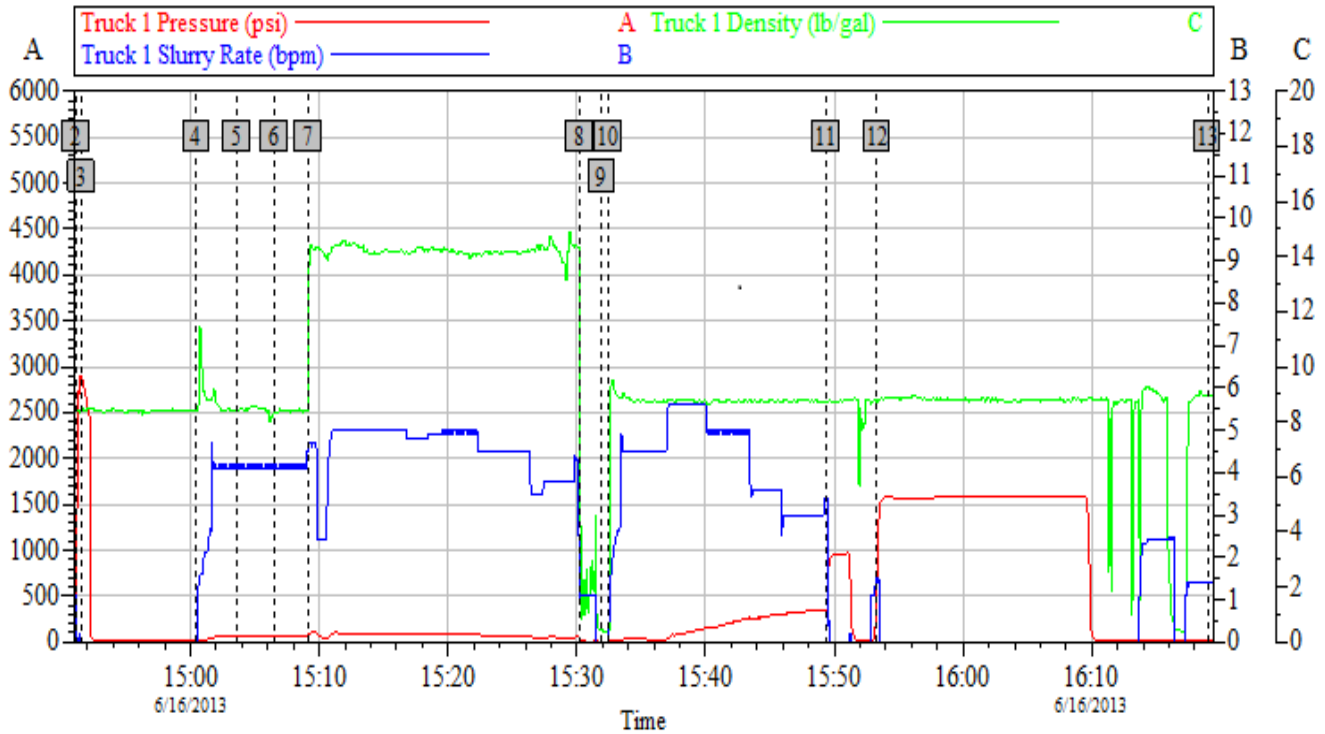
## ***Pumping Schedule***

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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	Fresh Water Spacer	8.33	4.00	10.0 bbl	10.0 bbl
1	2	Spacer	MUD FLUSH III	8.40	4.00	12.0 bbl	12.0 bbl
1	3	Spacer	Fresh Water Spacer	8.33	4.00	10.0 bbl	10.0 bbl
1	4	Cement Slurry	SwiftCem B2	14.20		354.0 sacks	97.0 bbl

## Data Acquisition

### Anadarko Petroleum 6-16-13 Howard Surface 3N-21HZ



2	Test Lines	14:51:07	3	Start Job	14:51:33	4	Pump Spacer 1	15:00:27
5	Pump Spacer 2	15:03:34	6	Pump Spacer 1	15:06:31	7	Pump Lead Cement	15:09:11
8	Shutdown	15:30:14	9	Drop Plug	15:31:56	10	Pump Displacement	15:32:29
11	Bump Plug	15:49:20	12	Other	15:53:18	13	End Job	16:18:59

Customer:	Job Date: 16-Jun-2013	Sales Order #: 900520202
Well Description:	UWI:	

OptiCem v6.4.10  
16-Jun-13 16:24

# HALLIBURTON

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
06/16/2013 12:00		Arrive at Location from Service Center					
06/16/2013 12:05		Assessment Of Location Safety Meeting					Hazard Hunt on location before spotting trucks
06/16/2013 14:51		Start Job					
06/16/2013 14:51		Test Lines					3000psi Test Lines to Rig Floor
06/16/2013 15:00		Pump Spacer 1	4	10		63.0	10bbls H2O spacer
06/16/2013 15:03		Pump Spacer 2	4	12		63.0	12bbls Mud Flush Spacer
06/16/2013 15:06		Pump Spacer 1	4	10		63.0	10bbls H2O Spacer
06/16/2013 15:09		Pump Cement	5	97		50.0	350sks SwiftCem, 14.2ppg, 1.54yield, 7.67gal/sk, Mixed with rig water and # verify by pressurized mud scales
06/16/2013 15:30		Shutdown					
06/16/2013 15:31		Drop Top Plug					Pre-Loaded
06/16/2013 15:32		Pump Displacement	5.5	69.5		125.0	H2O displacement, Good returns throughout... Cmt to surface at
06/16/2013 15:49		Bump Plug	3			250.0	Slowed down last 20bbls to 3bbl/min to bump, Plug landed at 250psi and brought to 948psi for 1min
06/16/2013 15:50		Check Floats					Floats Held
06/16/2013 15:53		Other					1500psi Csg Test 15mins
06/16/2013 16:18		End Job					7bbls cmt back to surface, fell 3bbls and waited 30mins stopped falling

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300466		<b>Ship To #:</b> 3003827		<b>Quote #:</b>		<b>Sales Order #:</b> 900520202	
<b>Customer:</b> ANADARKO PETROLEUM CORP - EBUS				<b>Customer Rep:</b> Hersh, Larry			
<b>Well Name:</b> Howard			<b>Well #:</b> 3N-21HZ		<b>API/UWI #:</b> 05-123-36797		
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> DACONO		<b>County/Parish:</b> Weld		<b>State:</b> Colorado	
<b>Lat:</b> N 40.03 deg. OR N 40 deg. 1 min. 48.922 secs.				<b>Long:</b> W 104.9 deg. OR W -105 deg. 6 min. 1.602 secs.			
<b>Contractor:</b> MAJORS			<b>Rig/Platform Name/Num:</b> MAJORS 42				
<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	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BULINSKI, MATTHEW J	0.0	483865	DODSON, RICHARD Bryan	0.0	518192	MILLER, GEOFFREY Alan	0.0	460232

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10866493C	20 mile	11064046C	20 mile	11542778	20 mile	11562562	20 mile
11605598	20 mile						

### Job

### Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Formation Depth (MD)</b>				16 - Jun - 2013	08:00	MST
<b>Form Type</b>	BHST		<b>On Location</b>	16 - Jun - 2013	12:00	MST
<b>Job depth MD</b>	925. ft	<b>Job Depth TVD</b>	925. ft	<b>Job Started</b>	16 - Jun - 2013	16:51
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>		<b>Job Completed</b>	16 - Jun - 2013	16:18
<b>Perforation Depth (MD)</b>	<i>From</i>	<i>To</i>	<b>Departed Loc</b>	16 - Jun - 2013	18:00	MST

### Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft

### 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	Fresh Water Spacer		10.00	bbl	8.33				
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	12.00	bbl	8.4				
3	Fresh Water Spacer		10.00	bbl	8.33				
4	SwiftCem B2	SWIFTCEM (TM) SYSTEM (452990)	354.0	sacks	14.2	1.54	7.67		7.67
	0.125 lbm	POLY-E-FLAKE (101216940)							
	7.67 Gal	FRESH WATER							

<i>The Information Stated Herein Is Correct</i>	<b>Customer Representative Signature</b>
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