

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

Howard 37N-33HZ

MAJORS 29

Post Job Summary **Cement Surface Casing**

Date Prepared: 3/11/2014
Version: 1

Service Supervisor: NIELSON, BRANDON

Submitted by: PRUDHOMME, JOSHUA

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	2.0	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	3.0	12.0 bbl	12.0 bbl
1	1	Spacer	Fresh Water Spacer	8.33	2.5	10.0 bbl	10.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.2	4.3	390.0 sacks	390.0 sacks

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
10/01/2013 22:00		Call Out					
10/02/2013 01:00		Arrive At Loc					We arrived 1 hour early casing was on bottom, started rigging up right away.
10/02/2013 01:00		Rig-Up Equipment					
10/02/2013 02:00		Safety Meeting					JSA WITH RIG CREW
10/02/2013 02:33		Start Job					
10/02/2013 02:44		Test Lines					TESTED LINES TO 3000 PSI NO VISBLE LEAKS
10/02/2013 02:46		Pump Spacer 1	2	10		35.0	FRESH WATER. WE DIDNT HAVE RETURNS FOR TH FIRST 13 BBL OF SPACER'S
10/02/2013 02:51		Pump Spacer 2	3	12		50.0	MUD FLUSH
10/02/2013 02:55		Pump Spacer 1	2.5	10		65.0	FRESH WATER
10/02/2013 03:00		Pump Cement	4.3	107.6		82.0	390 SKS SWIFTCEM MIXED @ 14.2 PPG WITH FRESH WATER
10/02/2013 03:24		Clean Lines					WASHED PUMPS AND LINES TO HALF ROUND TANK
10/02/2013 03:24		Shutdown					
10/02/2013 03:28		Drop Top Plug					PLUG PRE LOADED WITNESSED BY COMPANY REP
10/02/2013 03:28		Pump Displacement	5	58.5		210.0	Displacement was calculated off pipe tally provided by company rep. Calculated was 75.5 bbl, we landed the plug at 58.5 bbl into. The customer discovered that not all of the casing had been run.
10/02/2013 03:42		Bump Plug				330.0	CALCULATED PRESSURE TO LAND WAS 330 PSI. CUSTOMER REQUESTED THAT WE PRESSURED 1000 PSI OVER FINAL CIRCULATING PRESSURE. Cement returned to surface 43 bbl into leaving us with 15.5 bbl back
10/02/2013 03:52		Check Floats				1790.0	FLOATS HELD WITH .5 BBL BACK TO THE TRUCK.
10/02/2013 03:55		End Job					
10/02/2013 03:56		Other					A crew was out to this location on 10-01-2013 and waited 13 hours and were released do to the fact that a dope brush was dropped down the casing. rig had to pull casing.
10/02/2013 12:30		Casing on Bottom					

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3107572	Quote #:	Sales Order #: 900768420
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Balkenbush, Bob	
Well Name: Howard		Well #: 37N-33HZ	API/UWI #: 05-123-38032
Field: WATTENBERG	City (SAP): DACONO	County/Parish: Weld	State: Colorado
Lat: N 40.017 deg. OR N 40 deg. 1 min. 2.676 secs.		Long: W 104.891 deg. OR W -105 deg. 6 min. 31.324 secs.	
Contractor: MAJORS		Rig/Platform Name/Num: MAJORS 29	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: GREGORY, JON		Srvc Supervisor: NIELSON, BRANDON	MBU ID Emp #: 479703

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ACEVEDO, ROBERTO Carlos	4.5	551312	CARPENTER, JACOB P	13.0	499500	NIELSON, BRANDON K	4.5	479703
VIATOR, JASON R.	13.0	550394	WHEELER, JUSTIN W	4.5	196470			

Job

Job Times

Formation Name				Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom		Called Out	01 - Oct - 2013	22:00 MST
Form Type	BHST			On Location	02 - Oct - 2013	01:00 MST
Job depth MD	1020. ft	Job Depth TVD	1020. ft	Job Started	02 - Oct - 2013	02:33 MST
Water Depth		Wk Ht Above Floor	3. ft	Job Completed	02 - Oct - 2013	03:55 MST
Perforation Depth (MD)	From	To		Departed Loc	02 - Oct - 2013	05:30 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
13 1/2" Open Hole Section				13.5				.	900.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	900.		

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		10.0	bbl	8.33			2.0	
2	Mud Flush		12.0	bbl	8.4			3.0	
	42 gal/bbl	MUD FLUSH III - SBM (528788)							
	3.5 lbm/bbl	MUD FLUSH III, 40 LB SACK (101633304)							
1	Fresh Water Spacer		10.0	bbl	8.33			2.5	
3	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	390	sacks	14.2	1.55	7.68	4.3	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 @
The Information Stated Herein Is Correct				Customer Representative Signature					

