

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

Dreiling 27C-32HZ

Majors 42

Post Job Summary

Cement Surface Casing

Date Prepared: 1/3/2014
Version: 1

Service Supervisor: DEAN, MARK

Submitted by: TRIER, DEREK

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	1,017.00	45.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,017.00	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	3.30	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	3.30	12.0 bbl	12.0 bbl
1	1	Spacer	Fresh Water Spacer	8.33	3.30	10.0 bbl	10.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.20	3.30	380 sks	380 sks

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
12/06/2013 07:00		Call Out					Crew Called Out @ 07:00
12/06/2013 11:30		Pre-Convoy Safety Meeting					Discussed Planned Route, Equipment Checks & Safe Driving
12/06/2013 11:45		Depart from Service Center or Other Site					Departed Yard in Convoy
12/06/2013 12:30		Arrive at Location from Service Center					Pulled Equipment Off the Road to Inspect Site.
12/06/2013 12:45		Assessment Of Location Safety Meeting					Discussed Layout & Spotting Equipment
12/06/2013 12:55		Pre-Rig Up Safety Meeting					Discussed PPE, Red Zones, Working in the Snow & Other Hazards
12/06/2013 13:00		Rig-Up Equipment					Rigged up Safely to Customer & HES Standards
12/06/2013 15:15		Pre-Job Safety Meeting					Discussed Job Procedure & Safety Concerns with Customer & Crew
12/06/2013 15:39		Test Lines					Tested Lines to 2000 psi (Pressure Held) Reset KO's to 400psi (Could not Chart off ZS4)
12/06/2013 15:39		Pump Water	3.3	10		100.0	Pumped 10 BBL Water Ahead
12/06/2013 15:45		Pump Spacer	3.3	12		100.0	Pumped 12 BBL Mud Flush III
12/06/2013 15:55		Pump Water	3.3	10		100.0	Pumped 10 BBL Fresh Water Behind
12/06/2013 16:00		Pump Lead Cement	3.3	104		100.0	Pumped 104 BBL Lead CMT @ D: 14.2# Y: 1.54 W: 7.66 (380 sks)
12/06/2013 16:32		Shutdown					Shutdown to Drop Plug
12/06/2013 16:33		Drop Plug					Tattle Tell Opened. Plug Left Head
12/06/2013 16:36		Clean Lines	5	10		5.0	Cleaned Lines on top of plug with first 10 BBL Displacement
12/06/2013 16:36		Pump Displacement	5	74		20.0	Pumped 74 BBL of Fresh Water Displacement
12/06/2013 16:52		Displ Reached Cmmt	5	24		150.0	Caught plug @ 24 BBL Away
12/06/2013 17:12		Cement Returns to Surface	2	66		400.0	6 BBL Total Cement Returned to Surface
12/06/2013 17:12		Slow Rate	2	65		400.0	Slowed Rate to 2 BPM to Land Plug
12/06/2013 17:15		Bump Plug	2	74		400.0	Bumped Plug @ 400psi. 300 psi over to 700psi
12/06/2013 17:18		Check Floats					.5 BBL back to Truck
12/06/2013 17:25		Pre-Rig Down Safety Meeting					Discussed Trapped Pressure, Overhead Loads, & Other Hazards.
12/06/2013 17:30		Rig-Down Equipment					Rigged Down Safely to Customer & HES Standards.
12/06/2013 19:00		Pre-Convoy Safety Meeting					Discussed Safe Driving.
12/06/2013 19:30		Depart Location for Service Center or Other Site					Thankyou for Chosing Halliburton!

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3205830		Quote #:		Sales Order #: 900947828	
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: Porter, Bob			
Well Name: Dreiling			Well #: 27C-32HZ		API/UWI #:		
Field: WATTENBERG		City (SAP): IONE		County/Parish: Weld		State: Colorado	
Contractor: Majors			Rig/Platform Name/Num: Majors 42				
Job Purpose: Cement Surface Casing							
Well Type: Development Well				Job Type: Cement Surface Casing			
Sales Person: PLIENESS, RYAN			Srvc Supervisor: DEAN, MARK		MBU ID Emp #: 454214		

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ACEVEDO, ROBERTO Carlos	0.0	551312	BARNES, BRIAN L	0.0	485204	DEAN, MARK Christophe	0.0	454214

Equipment

HES Unit #	Distance-1 way						
10824253C	20 mile						

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	06 - Dec - 2013	12:30	MST
Job depth MD	1017. ft		Job Depth TVD	Job Started	06 - Dec - 2013	15:30	MST
Water Depth			Wk Ht Above Floor	Job Completed	06 - Dec - 2013	17:18	MST
Perforation Depth (MD)	From		To	Departed Loc	06 - Dec - 2013	19:30	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				.	1017.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1017.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
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	7	EA		
BASKET - CEMENT - 9-5/8 CSG X 12-1/4	1	EA		
PLUG,CMTG, TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		
COLLAR-STOP-9 5/8"-FRICTION-HINGED	2	EA		

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

1	Fresh Water Spacer			bbbl	8.33			3.30	
2	Mud Flush			bbbl	8.4			3.30	
	3.5 lbm/bbl	MUD FLUSH III, 40 LB SACK (101633304)							
	42 gal/bbl	MUD FLUSH III - SBM (528788)							
1	Fresh Water Spacer			bbbl	8.33			3.30	
3	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)		sacks	14.2	1.54	7.66	3.30	7.66
	7.66 Gal	FRESH WATER							
Calculated Values		Pressures			Volumes				
Displacement	74	Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns	6	Actual Displacement	74	Treatment	
Frac Gradient		15 Min		Spacers	32	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	45 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					

