

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

Xcel 32C-22HZ

Majors 42

Post Job Summary

Cement Surface Casing

Date Prepared: 11/29/2013
Version: 1

Service Supervisor: DEAN, MARK

Submitted by: TRIER, DEREK

HALLIBURTON

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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	1,032.00	43.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,042.00	0.00

HALLIBURTON

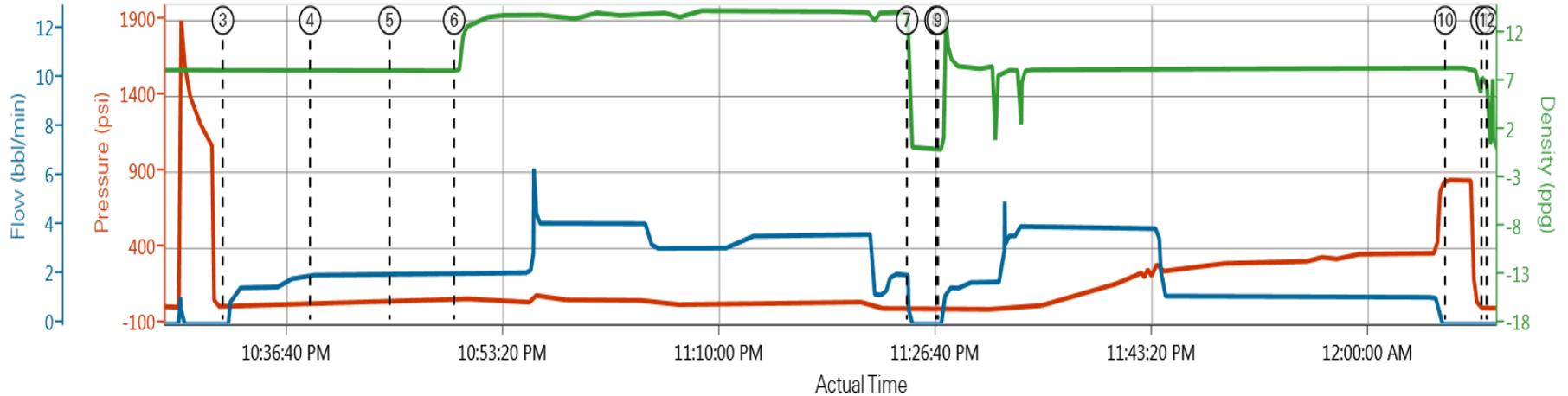
Pumping Schedule

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	1.5	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	2.0	12.0 bbl	12.0 bbl
1	1	Spacer	Fresh Water Spacer	8.33	2.0	10.0 bbl	10.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.20	4.0	390.0 sk	390.0 sk

HALLIBURTON

Data Acquisition

ANADARKO SURFACE 11-18-13



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

- ① Start Job 8;7.65;0 ④ Pump Mud Flush 43;8.32;2 ⑦ Shutdown 5;0.34;0 ⑩ Bump Plug 850;8.54;0
- ② Test Lines 17;8.31;0 ⑤ Pump Water 51;8.27;2 ⑧ Drop Top Plug 0;0.08;0 ⑪ Check Floats 3;7.15;0
- ③ Pump Water 11;8.33;0 ⑥ Pump Cement 62;8.26;2.1 ⑨ Pump Displacement 0;0.1;0 ⑫ End Job 3;0.61;0

▼ HALLIBURTON | iCem® Service

Created: 2013-11-18 19:56:55, Version: 2.0.606

Edit

Customer: ANADARKO PETROLEUM CORP - EBUS

Job Date: 11/18/2013 9:56:54 PM

Well: 32c-22h2

Representative: BOB PORTER

Sales Order #: 900908366

RedTiger #: 11341988

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
11/18/2013 16:00		Call Out					Crew Called Out @ 16:00
11/18/2013 18:00		Pre-Convoy Safety Meeting					Discussed Planned Route, Equipment Checks & Safe Driving
11/18/2013 18:15		Depart from Service Center or Other Site					Departed Yard in Convoy
11/18/2013 20:00		Arrive at Location from Service Center					Pulled Equipment Off the Road to Inspect Site.
11/18/2013 20:15		Assessment Of Location Safety Meeting					Discussed Layout & Spotting Equipment
11/18/2013 20:30		Pre-Rig Up Safety Meeting					Discussed PPE, Red Zones, & Other Hazards
11/18/2013 20:45		Rig-Up Equipment					Rigged up Safely to Customer & HES Standards
11/18/2013 22:00		Pre-Job Safety Meeting					Discussed Job Procedure & Safety Concerns with Customer & Crew
11/18/2013 22:20		Test Lines					Tested Lines to 1000 psi (Pressure Held) Reset KO's to 400psi
11/18/2013 22:29		Pump Water	1.5	10		30.0	Pumped 10 BBL Water Ahead
11/18/2013 22:36		Pump Spacer	2	12		45.0	Pumped 12 BBL Mud Flush III
11/18/2013 22:42		Pump Water	2	10		50.0	Pumped 10 BBL Fresh Water Behind
11/18/2013 22:47		Pump Cement	4	107		60.0	Pumped 107 BBL CMT @ D: 14.2# Y: 1.54 W: 7.66 (390 sks)
11/18/2013 23:16		Returns To Surface	4	93		50.0	Returns to surface @ 93 BBL of CMT gone.
11/18/2013 23:22		Shutdown					Shutdown to Drop Plug
11/18/2013 23:23		Drop Plug					Tattle Tell Opened. Plug Left Head
11/18/2013 23:25		Clean Lines					Cleaned Lines on top of plug with first 10 BBL Displacement
11/18/2013 23:25		Pump Displacement	4	76		20.0	Pumped 76 BBL of Fresh Water Displacement
11/18/2013 23:36		Displ Reached Cmnt	4	30		100.0	Caught plug at 30 BBL gone.
11/18/2013 23:42		Slow Rate	1	50		250.0	Slowed Rate to 1 BPM per customer request. (suck truck not working)
11/18/2013 23:45		Cement Returns to Surface	1	57		290.0	19 BBL Total Cement Returned to Surface
11/19/2013 00:03		Bump Plug				400.0	Bumped Plug @ 400psi. 500 psi over to 900psi
11/19/2013 00:05		Check Floats					.5 BBL back to Truck
11/19/2013 00:15		Pre-Rig Down Safety Meeting					Discussed Trapped Pressure, Overhead Loads, & Other Hazards.
11/19/2013 00:25		Rig-Down Equipment					Rigged Down Safely to Customer & HES Standards.
11/19/2013 01:45		Pre-Convoy Safety Meeting					Discussed Safe Driving.
11/19/2013 02:00		Depart Location for Service Center or Other Site					Thank you for Choosing Halliburton!

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3202444	Quote #:	Sales Order #: 900908366
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Porter, Bob	
Well Name: Xcel	Well #: 32C-22HZ	API/UWI #: 05-123-38391	
Field: Wattenberg	City (SAP): DACONO	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 #
BARNES, BRIAN L	0.0	485204	DEAN, MARK Christophe	0.0	454214	EAVES, WESTON	0.0	539193

Job

Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD) From	To	Date	Time	Time Zone	
			BHST	1031. ft				Called Out	18 - Nov - 2013	15:30	MST
								On Location	18 - Nov - 2013	18:30	MST
								Job Started	18 - Nov - 2013	10:15	MST
								Job Completed	19 - Nov - 2013	00:05	MST
								Departed Loc	19 - Nov - 2013	01:30	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				.	1042.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1032.		

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		10.0	bbl	8.33			1.5	
2	Mud Flush		12.0	bbl	8.4			2.0	
		3.5 lbm/bbl	MUD FLUSH III, 40 LB SACK (101633304)						
		42 gal/bbl	MUD FLUSH III - SBM (528788)						
1	Fresh Water Spacer		10.0	bbl	8.33			2.0	
3	SwiftCem B2	SWIFTCEM (TM) SYSTEM (452990)		sacks	14.2	1.53	7.63	4.0	7.63
		7.63 Gal	FRESH WATER						

Calculated Values

Pressures

Volumes

Displacement	76	Shut In: Instant		Lost Returns	0	Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns	19	Actual Displacement	76	Treatment	
Frac Gradient		15 Min		Spacers	32	Load and Breakdown		Total Job	

Rates											
Circulating		Mixing			Displacement			Avg. Job			
Cement Left In Pipe		Amount	43 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						

