

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

Badding 13C-2HZ

**Majors 29**

## **Post Job Summary** **Cement Surface Casing**

Date Prepared: 11/17/2013  
Version: 1

Service Supervisor: NIELSON, BRANDON

Submitted by: TRIER, DEREK

**HALLIBURTON**

# HALLIBURTON

## Wellbore Geometry

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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	1,240.00	43.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,240.00	0.00

# HALLIBURTON

## ***Pumping Schedule***

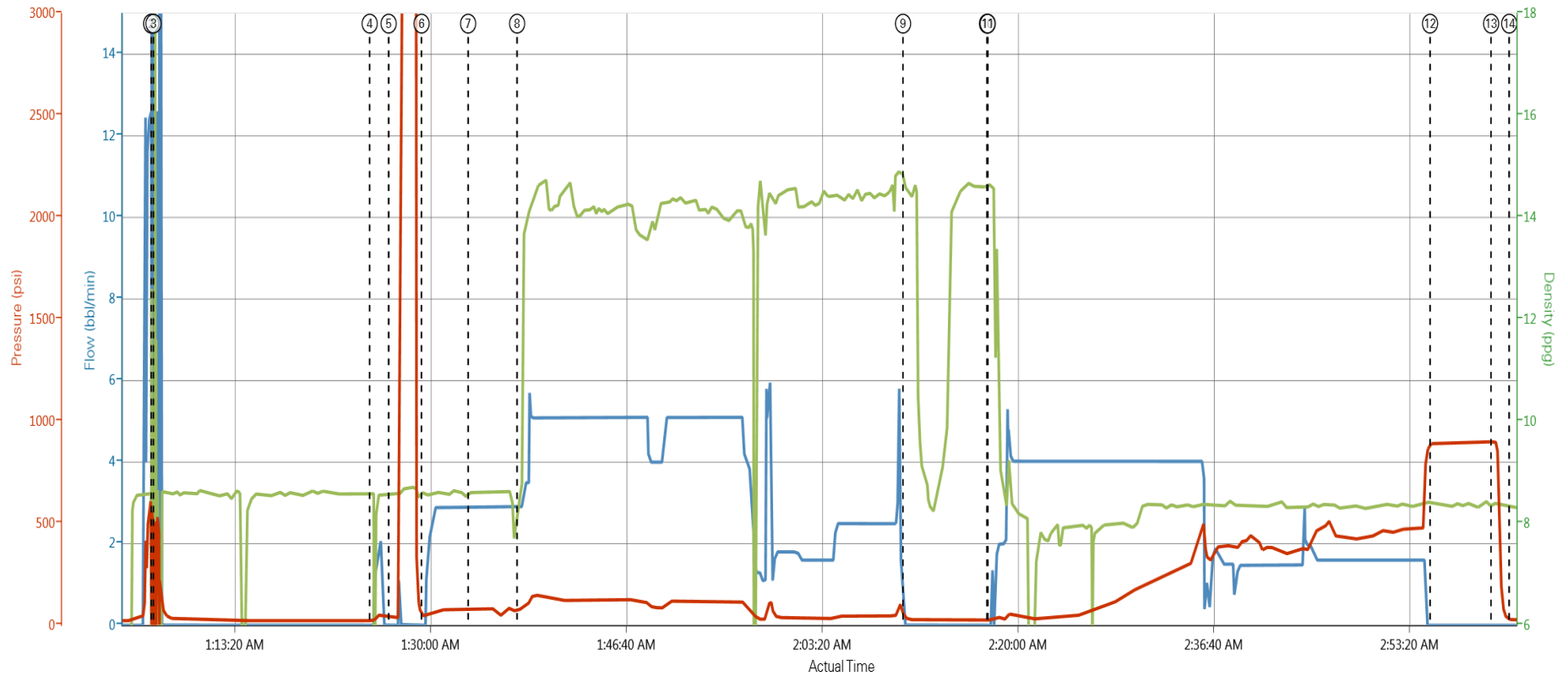
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Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Fresh Water Spacer	8.33	3.00	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	3.00	12.0 bbl	12.0 bbl
1	3	Spacer	Water Spacer	8.33	3.00	10.0 bbl	10.0 bbl
1	4	Cement Slurry	SwiftCem B2	14.20	5.00	467.0 sacks	467.0 sacks

# HALLIBURTON

## Data Acquisition

ANADARKO BADDING 13C-2HZ



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

① Compupac Event n/a,n/a,n/a ④ Start Job 0;8.59;23 ⑦ Pump Spacer 2 2.9;8.64;79 ⑩ Drop Top Plug 0;14.66;26 ⑬ Other 0;8.42;900  
 ② Break Formation 0;0;0 ⑤ Test Lines 0;8.57;37 ⑧ Pump Cement 2.9;8.4;79 ⑪ Pump Displacement 0;14.67;26 ⑭ End Job 0;8.32;27  
 ③ Reverse Circ Well 12.6;8.68;519 ⑥ Pump Spacer 1 0;8.6;43 ⑨ Shutdown 0;14.59;37 ⑫ Bump Plug 0;8.35;895

# HALLIBURTON

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)		Comments
11/05/2013 16:30		Call Out							
11/05/2013 22:00		Crew Leave Yard							
11/05/2013 22:40		Arrive At Loc							UPON ARRIVAL RIG WAS RUNNING CASING HAD ABOUT A FULL RACK
11/05/2013 22:45		Assessment Of Location Safety Meeting							JSA WITH CREW, HAZARD HUNT
11/05/2013 22:45		Rig-Up Equipment							Started rigging up and found that the pump truck had a small issue, we had enough time that we could run back to the yard and repair it. Arrived back on location and the rig was still running casing with 5 joints left to run
11/05/2013 23:00		Rig-Up Completed							
11/06/2013 00:45		Casing on Bottom							
11/06/2013 01:00		Safety Meeting							JSA WITH ALL PERSONS
11/06/2013 01:26		Test Lines							TESTED LINES TO 3000 PSI WITH NO VISIBLE LEAKS
11/06/2013 01:29		Pump Spacer 1	3	10				79.0	FRESH WATER
11/06/2013 01:33		Pump Spacer 2	3	12				84.0	MUD FLUSH. ( half a sack )
11/06/2013 01:35		Pump Spacer 1	3	10				91.0	FRESH WATER
11/06/2013 01:37		Pump Cement	5	128				118.0	467 SKS SWIFTCM MIXED @ 14.2 PPG WITH FRESH WATER. SCALED MULTIPLE TIMES
11/06/2013 02:10		Shutdown							Had to pump through a swage because the landing joint had teeth marks in it from the slips.
11/06/2013 02:17		Drop Top Plug							REMOVED SWAGE AND DROPPED PLUG BY HAND WITNESSED BY COMPANY REP
11/06/2013 02:17		Pump Displacement	1.5	92.5				200.0	FRESH WATER. We lifted the pipe about 55 bbl into so we slowed our rate to 1.5 bpm and the pipe settled back down.
11/06/2013 02:55		Bump Plug	1.5					400.0	CALCULATED PRESSURE TO LAND WAS 367 PSI.
11/06/2013 03:00		Check Floats						900.0	FLOATS HELD WITH 1 BBL BACK TO THE TRUCK
11/06/2013 03:10		End Job							
11/06/2013 12:40		Start Job							

## The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3195395	Quote #:	Sales Order #: 900879216
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Balkenbush, Bob	
Well Name: Badding		Well #: 13C-2HZ	API/UWI #:
Field: WATTENBERG	City (SAP): FORT LUPTON	County/Parish: Weld	State: Colorado
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 #
NIELSON, BRANDON K	6.0	479703	Reed, Paul	6.0	2	STIELER, KENT	6.0	554541
WHIPPLE, WESLEY Morgan	6.0	518611						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10857080C	20 mile	11106651	20 mile	11362287C	20 mile	11633846C	20 mile
12010172	20 mile						

## Job

## Job Times

Formation Name				Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom		Called Out	05 - Nov - 2013 16:30	MST
Form Type	BHST			On Location	05 - Nov - 2013 20:00	MST
Job depth MD	1240. ft			Job Started	06 - Nov - 2013 01:24	MST
Water Depth	Wk Ht Above Floor 3. ft			Job Completed	06 - Nov - 2013 03:10	MST
Perforation Depth (MD)	From	To		Departed Loc	06 - Nov - 2013 04:00	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
13 1/2" Open Hole Section				13.5				.	1240.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1240.		

Sales/Rental/3<sup>rd</sup> 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		
Description	Qty	Qty uom	Depth	Supplier
CNTRLZR, 9 5/8"x13 3/4',#500-0963-1375	6	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 <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			3.0	
2	Mud Flush		12.00	bbl	8.4			3.0	
3.5 lbm/bbl		MUD FLUSH III, 40 LB SACK (101633304)							
42 gal/bbl		MUD FLUSH III - SBM (528788)							
3	Water Spacer		10.00	bbl	8.33			3.0	
4	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	467.0	sacks	14.2	1.53	7.63	5.0	7.63
7.63 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	92.5	Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	92.5	Treatment	
Frac Gradient		15 Min		Spacers		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					

