

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

Thomason 22N-31HZ

Major 29

Post Job Summary

Cement Surface Casing

Date Prepared: 1/22/2014
Version: 1

Service Supervisor: VIGIL, NICHOLAS

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	1,501.00	42.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,512.00	0.00

HALLIBURTON

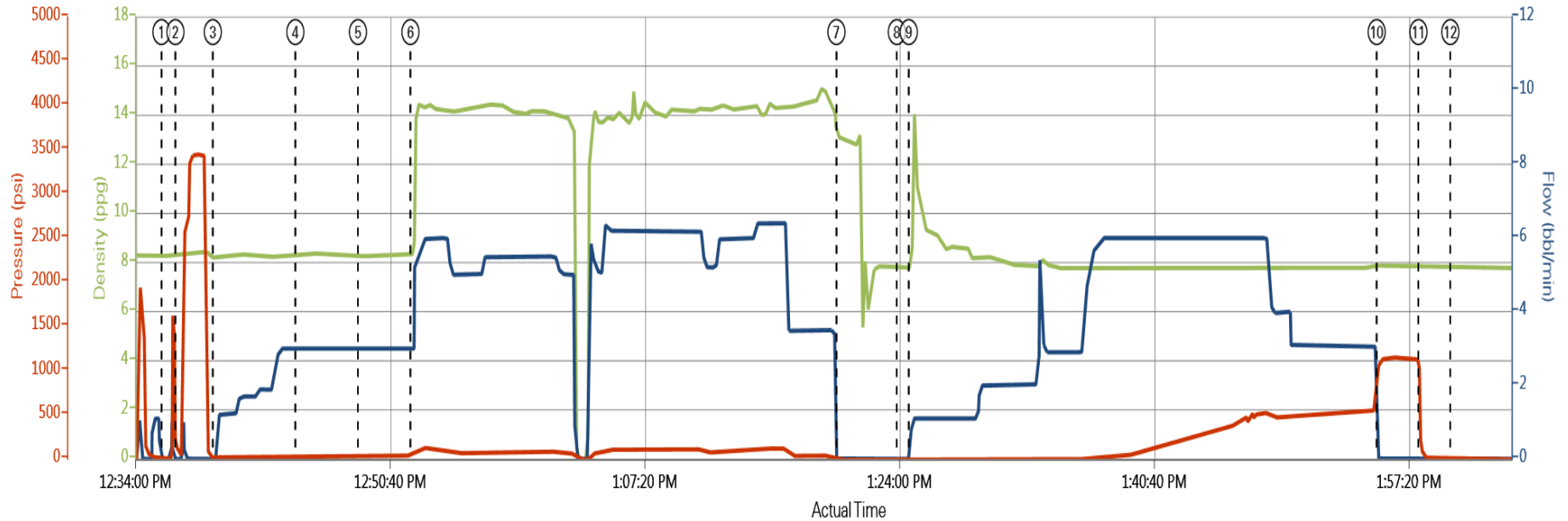
Pumping Schedule

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	3.00	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	3.00	12.0 bbl	12.0 bbl
1	3	Spacer	Fresh Water Spacer	0.00	3.00	10.0 bbl	10.0 bbl
1	4	Cement Slurry	SwiftCem B2	14.20	6.00	564.0 sacks	564.0 sacks

HALLIBURTON

Data Acquisition

Anadarko Thomason 22N-31HZ



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

① Start Job ② Test Lines ③ Water ④ Mud Flush ⑤ Water ⑥ 14.2 ppg SwiftCem ⑦ Shutdown ⑧ Drop Top Plug ⑨ Pump Displacement ⑩ Bump Plug ⑪ Check Floats ⑫ End Job

▼ Halliburton | iCem Service®

Created: 2013-10-11 11:38:08, Version: 1.4.96

Edit

Customer: ANADARKO PETROLEUM CORP - EBUS

Job Date: 10/11/2013 11:39:29 AM

Well: Thomason 22N-31HZ

Representative: Nicholas Vigil

Sales Order #: 900814470

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
10/11/2013 09:20		Arrive At Loc					On location time was 0930
10/11/2013 09:30		Assessment Of Location Safety Meeting					Hazard hunt,Rig up safety meeting,Rig still had about 10 joints of casing left to run
10/11/2013 09:40		Rig-Up Equipment					Set up spill containment and began rigging up trucks
10/11/2013 10:10		Rig-Up Completed					Finished rigging up and waited for rig to finish running casing and circulate
10/11/2013 12:20		Pre-Job Safety Meeting					Held safety meeting with all personell on location
10/11/2013 12:35		Start Job					
10/11/2013 12:36		Test Lines					Pressure tested lines to 3000 psi
10/11/2013 12:39		Pump Spacer 1	3	10			Fresh Water
10/11/2013 12:44		Pump Spacer 2	3	12			Mud Flush
10/11/2013 12:48		Pump Spacer 1	3	10			Fresh Water
10/11/2013 12:52		Pump Cement	6	154.6		100.0	14.2 ppg SwiftCem (564 sks), weight was verified by scale
10/11/2013 13:19		Shutdown					
10/11/2013 13:23		Drop Top Plug					Broke off swage on dropped plug
10/11/2013 13:24		Pump Displacement	6	60		230.0	Displaced using fresh water
10/11/2013 13:55		Bump Plug	3	115		550.0	Bumped 500 psi over final lift per company man
10/11/2013 13:58		Check Floats					Floats held
10/11/2013 14:00		End Job					Rig down safety meeting
10/11/2013 14:05		Rig-Down Equipment					Rigged down iron and wash up truck
10/11/2013 14:45		Rig-Down Completed					

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3110678	Quote #:	Sales Order #: 900814470
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Case, Randy	
Well Name: Thomason		Well #: 22N-31HZ	API/UWI #: 05-123-36006
Field: WATTENBURG	City (SAP): FORT LUPTON	County/Parish: Weld	State: Colorado
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: PLIENESS, RYAN		Srvc Supervisor: VIGIL, NICHOLAS	MBU ID Emp #: 443481

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HERNANDEZ, ROY	0.0	TWS	MAYFIELD, BYRON L	0.0	528751	ROMERO, JOSEPH M	0.0	512137
SCILEPPI, JOE	0.0	555492	VIGIL, NICHOLAS Joseph	0.0	443481			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248053C	8 mile	10248062C	8 mile	11398490	8 mile	12010168	8 mile

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					11 - Oct - 2013	06:00	MST
Form Type			BHST	On Location	11 - Oct - 2013	09:20	MST
Job depth MD	1512. ft		Job Depth TVD	Job Started	11 - Oct - 2013	12:35	MST
Water Depth			Wk Ht Above Floor	Job Completed	11 - Oct - 2013	14:00	MST
Perforation Depth (MD)	<i>From</i>		<i>To</i>	Departed Loc	11 - Oct - 2013	15:00	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				.	1512.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1501.		

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			3.0	
2	Mud Flush		12.00	bbl	8.4			3.0	
		42 gal/bbl	MUD FLUSH III - SBM (528788)						
		3.5 lbm/bbl	MUD FLUSH III, 40 LB SACK (101633304)						
3	Fresh Water Spacer		10.0	bbl	8.33			3.0	
4	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	564.0	sacks	14.2	1.54	7.66	6.0	7.66
		7.66 Gal	FRESH WATER						

Calculated Values

Pressures

Volumes

Displacement	115	Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	115	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 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

