

HALLIBURTON

iCem[®] Service

Post Job Report

ANADARKO PETROLEUM CORP - EBUS

For: RANDY CASE

Date: Saturday, June 14, 2014

Roberts 34N-22HZ Surface

ROBERTS

Case 1

Sincerely,

Derek Trier

Table of Contents

1.1	Executive Summary	3
1.2	Cementing Job Summary	4
1.3	Planned Pumping Schedule	Error! Bookmark not defined.
1.4	Job Overview	6
1.5	Water Field Test	Error! Bookmark not defined.
1.6	Job Event Log	7
2.0	Custom Graphs	Error! Bookmark not defined.
2.1	Custom Graph	Error! Bookmark not defined.
3.0	Appendix	9

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Roberts 34N-22HZ** cement **Surface** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton [Brighton]

Job Times

	Date	Time	Time Zone
Requested Time On Location	06/14	1230	MST
Called Out		0830	
On Location		1230	
Job Started		1512	
Job Completed		1641	
Departed Location		1730	

1.2 Cementing Job Summary

Sold To #: 300466		Ship To #: 3117113		Quote #:		Sales Order #: 0901428062				
Customer: ANADARKO PETROLEUM CORP - EBUS					Customer Rep: Randy Case					
Well Name: ROBERTS			Well #: 34N-22 HZ			API/UWI #: 05-123-36314-00				
Field: WATTENBERG		City (SAP): PLATTEVILLE		County/Parish: WELD			State: COLORADO			
Legal Description: NW NW-22-3N-66W-541FNL-485FWL										
Contractor:					Rig/Platform Name/Num: Majors 29					
Job BOM: 7521										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX23209					Srvc Supervisor: Aaron Smith					
Job										
Formation Name										
Formation Depth (MD)		Top			Bottom					
Form Type					BHST					
Job depth MD		1234ft			Job Depth TVD					
Water Depth					Wk Ht Above Floor					
Perforation Depth (MD)					To					
Well Data										
	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	8.921	36		J-55	0	1223		0
Open Hole Section			13.5				0	1234		0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	9.625			1223		Top Plug	9.625		HES	
Float Shoe	9.625					Bottom Plug	9.625		HES	
Float Collar	9.625					SSR plug set	9.625		HES	
Insert Float	9.625					Plug Container	9.625		HES	
	9.625					Centralizers	9.625		HES	
Fluid Data										
Stage/Plug #: 1										

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Mud Flush III (Powder)	Mud Flush III	12	bbbl	8.4				
42 gal/bbl									
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Lead Cement	SWIFTCEM (TM) SYSTEM	462	sack	14.2	1.54		6	7.64
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Displacement	Displacement	92	bbbl	8.33				
		Amount	42 ft						
Comment									

1.3 Job Overview

		Units	Description
1	Surface temperature at time of job	°F	
2	Mud type (OBM, WBM, SBM, Water, Brine)	-	WBM
3	Actual mud density	lb/gal	
4	Actual mud Plastic Viscosity (PV)	cP	
5	Actual mud Yield Point (YP)	lb _f /100ft ²	
6	Actual mud 30 min Gel Strength	lb _f /100ft ²	
7	Time circulated before job	HH:MM	
8	Mud volume circulated	Bbls	
9	Rate at which well was circulated	Bpm	
10	Pipe movement during hole circulation	Y/N	N
11	Rig pressure while circulating	Psi	
12	Time from end mud circulation to start of job	HH:MM	
13	Pipe movement during cementing	Y/N	N
14	Calculated displacement	Bbls	92
15	Job displaced by	Rig/HES	HES
16	Annular flow before job	Y/N	N
17	Annular flow after job	Y/N	N
18	Length of rat hole	Ft	
19	Units of gas detected while circulating	Units	
20	Was lost circulation experienced at any time?	Y/N	N

1.4 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	DH Density (ppg)	Comment
Event	1	Arrive at Location from Service Center	Arrive at Location from Service Center	6/14/2014	12:30:00	USER				WITH ALL EQUIPMENT AND MATERIALS
Event	2	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/14/2014	12:35:00	USER				RIG-UP JSA WITH HES CREW
Event	3	Rig-Up Equipment	Rig-Up Equipment	6/14/2014	12:45:00	USER				
Event	4	Rig-Up Completed	Rig-Up Completed	6/14/2014	13:05:00	USER				
Event	5	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/14/2014	14:45:00	USER				WITH CUSTOMER REP AND RIG CREW
Event	6	Start Job	Start Job	6/14/2014	15:12:03	COM7				
Event	7	Pump Spacer 1	Pump Spacer 1	6/14/2014	15:16:46	COM7				10 BBLS FRESH WATER
Event	8	Pump Spacer 2	Pump Spacer 2	6/14/2014	15:21:45	COM7				12 BBLS MUD FLUSH
Event	9	Pump Spacer 1	Pump Spacer 1	6/14/2014	15:27:25	COM7				10BBLS FRESH WATER
Event	10	Pump Cement	Pump Cement	6/14/2014	15:30:15	COM7				127 BBLS, 462 SKS, @14.2 PPG 1.54 YIELD, 7.64 GAL/SK
Event	11	Shutdown	Shutdown	6/14/2014	16:03:41	COM7				
Event	12	Drop Top Plug	Drop Top Plug	6/14/2014	16:04:47	COM7				PRE-LOADED HWE TOP PLUG IN PLUG CONTAINER
Event	13	Pump Displacement	Pump Displacement	6/14/2014	16:05:18	COM7				92 BBLS FRESH WATER
Event	14	Other	Spacer Returns to Surface	6/14/2014	16:20:19	COM7				@53 BBLS DISPLACEMENT 32 BBLS TO THE PIT
Event	15	Other	Cement Returns to Surface	6/14/2014	16:31:07	COM7				@85 BBLS DISPLACEMENT 7 BBLS TO THE PIT
Event	16	Bump Plug	Bump Plug	6/14/2014	16:35:28	COM7				FINAL CIRCULATING PRESSRE 396, FINAL BUMP 1469
Event	17	End Job	End Job	6/14/2014	16:41:15	COM7				THANKS AARON SMITH AND CREW
Event	18	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/14/2014	16:45:00	USER				
Event	19	Rig-Down Equipment	Rig-Down Equipment	6/14/2014	16:55:00	USER				
Event	20	Rig-Down Completed	Rig-Down Completed	6/14/2014	17:20:00	USER				

Event	21	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	6/14/2014	17:30:00	USER
-------	----	--	--	-----------	----------	------

2.0 Appendix
