

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3765179		Quote #: 0022314853		Sales Order #: 0904098392				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: .						
Well Name: BABCOCK			Well #: 13E-33HZ		API/UWI #: 05-123-43807-00					
Field: WATTENBERG		City (SAP): FIRESTONE		County/Parish: WELD		State: COLORADO				
Legal Description: SE NW-4-2N-67W-2138FNL-2010FWL										
Contractor: Precision				Rig/Platform Name/Num: Precision 464						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Nathaniel Moore						
Job										
Formation Name										
Formation Depth (MD)		Top				Bottom				
Form Type						BHST				
Job depth MD		12279ft				Job Depth TVD				
Water Depth						Wk Ht Above Floor				
Perforation Depth (MD)		From				To				
Well Data										
Description	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	1829	0	1829
Casing		5.5	4.892	17	LTC	HCP110	0	12269	0	7235
Open Hole Section			7.875				1829	12279	1829	7235
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5		HES	
Float Shoe	5.5			12269		Bottom Plug	5.5		HES	
Float Collar	5.5			12177		SSR plug set	5.5		HES	
Insert Float	5.5					Plug Container	5.5		HES	
Stage Tool	5.5					Centralizers	5.5		HES	
Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Spacer III	Tuned Spacer III	60	bbl	10.5	6.43				
86.45 lbm/bbl		BARITE, BULK (100003681)								
37.58 gal/bbl		FRESH WATER								
0.70 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								

0.70 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	ElastiCem - Cap Cement	ELASTICEM (TM) SYSTEM	150	sack	13.2	1.57		5	7.53
7.53 Gal		FRESH WATER							
0.90 %		SCR-100 (100003749)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	ElastiCem	ELASTICEM (TM) SYSTEM	390	sack	13.2	1.57		5	7.54
0.10 %		SUPER CBL, 50 LB PAIL (100003668)							
0.35 %		SCR-100 (100003749)							
7.54 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	EconoCem	ECONOCEM (TM) SYSTEM	690	sack	13.5	1.68		5	7.98
7.98 Gal		FRESH WATER							
0.40 %		HR-5, 50 LB SK (100005050)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
6	Biocide Water	Biocide Water – MMCR in first 20 bbl	282	bbl	8.34				
Cement Left In Pipe		Amount	93 ft		Reason			Shoe Joint	

No spacer to surface

2.0 Real-Time Job Summary

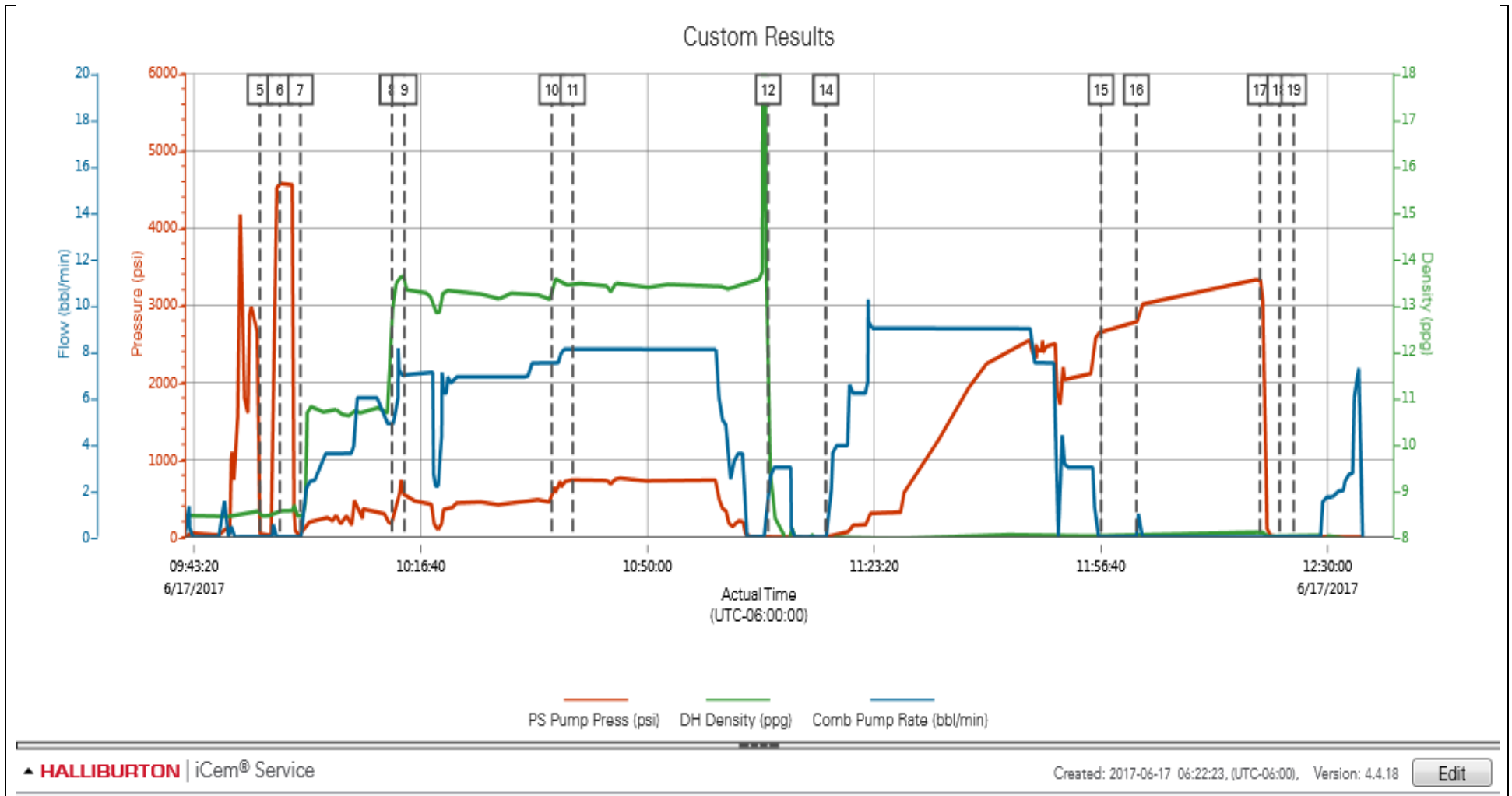
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comments
Event	1	Call Out	Call Out	6/17/2017	00:00:00	USER	Verify equipment and materials
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	6/17/2017	04:00:00	USER	
Event	3	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	6/17/2017	05:00:00	USER	Sign in with customer. Spot in and rig up equipment. Rig running casing. TD 12279' 7.875" hole. TP 12269' 5.5" 17# P-110 casing. Float collar 12177'. Surface 1830' 9.625" 36#. MW 9.3 ppg.
Event	4	Event	Pre-Job Safety Meeting	6/17/2017	09:20:00	USER	Discuss job procedure with HES and rig crew
Event	5	Start Job	Start Job	6/17/2017	09:53:00	COM1	Fill lines 3 bbl water
Event	6	Test Lines	Test Lines	6/17/2017	09:55:56	COM1	500 psi kickout test and 4500 psi pressure test
Event	7	Pump Spacer 1	Pump Spacer 1	6/17/2017	09:58:57	COM1	60 bbl tuned spacer with surfactants. 10.5 ppg 6.43 ft3/sk 41.3 gal/sk
Event	8	Pump Lead Cement	Pump Lead Cement	6/17/2017	10:12:25	COM1	150 sks without CBL followed by 390 sks with CBL. 151 bbl total. 13.2 ppg 1.57 ft3/sk 7.54 gal/sk
Event	9	Check Weight	Check weight	6/17/2017	10:14:15	COM1	13.2 ppg verified with pressurized scales
Event	10	Pump Tail Cement	Pump Tail Cement	6/17/2017	10:35:55	COM1	690 sks/206 bbl 13.5 ppg 1.68 ft3/sk 7.98 gal/sk
Event	11	Check Weight	Check weight	6/17/2017	10:39:01	COM1	13.5 ppg
Event	12	Shutdown	Shutdown	6/17/2017	11:07:44	COM1	wash pumps and lines and blow down iron with rig air.
Event	13	Drop Top Plug	Drop Top Plug	6/17/2017	11:16:10	COM1	Witnessed by company man.

Event	14	Pump Displacement	Pump Displacement	6/17/2017	11:16:14	COM1	282 bbl water displacement with MMCR in first 20 bbl and Biocide throughout.
Event	15	Bump Plug	Bump Plug	6/17/2017	11:56:40	COM1	2148 final circulating pressure. Pressured up to 2700 psi for 5 minutes.
Event	16	Pressure Up Well	Pressure Up Well	6/17/2017	12:01:51	COM1	3000 psi casing test for 15 minutes.
Event	17	Other	Check floats	6/17/2017	12:20:03	USER	3 bbl back. Floats held
Event	18	End Job	End Job	6/17/2017	12:22:55	COM1	
Event	19	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/17/2017	12:25:00	USER	
Event	20	Depart Location Safety Meeting	Depart Location Safety Meeting	6/17/2017	14:00:00	USER	

3.0 Attachments

3.1 Case 1-Custom Results (1).png



iCem® Service

(v. 4.4.18)

Created: Sunday, June 25, 2017

