

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		Srvc 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



