

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300466		<b>Ship To #:</b> 3765182		<b>Quote #:</b> 0022321509		<b>Sales Order #:</b> 0904125258				
<b>Customer:</b> ANADARKO PETROLEUM CORP-EBUS				<b>Customer Rep:</b> .						
<b>Well Name:</b> BABCOCK			<b>Well #:</b> 33C-33HZ		<b>API/UWI #:</b> 05-123-43809-00					
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> FIRESTONE		<b>County/Parish:</b> WELD		<b>State:</b> COLORADO				
<b>Legal Description:</b> SE NW-4-2N-67W-2138FNL-1965FWL										
<b>Contractor:</b> Precision				<b>Rig/Platform Name/Num:</b> Precision 464						
<b>Job BOM:</b> 7523 7523										
<b>Well Type:</b> HORIZONTAL GAS										
<b>Sales Person:</b> HALAMERICA\HX41066				<b>Srv Supervisor:</b> Nathaniel Moore						
<b>Job</b>										
<b>Formation Name</b>										
<b>Formation Depth (MD)</b>		<b>Top</b>		<b>Bottom</b>						
<b>Form Type</b>				<b>BHST</b>						
<b>Job depth MD</b>		12485		<b>Job Depth TVD</b>						
<b>Water Depth</b>				<b>Wk Ht Above Floor</b>						
<b>Perforation Depth (MD)</b>		<b>From</b>		<b>To</b>						
<b>Well Data</b>										
<b>Description</b>	<b>New / Used</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>
Casing		9.625	8.921	36		J-55	0	1840	0	1840
Casing		5.5	4.892	17	LTC	HCP110	0	12475	0	7370
Open Hole Section			7.875				1840	12485	1840	7370
<b>Tools and Accessories</b>										
<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	<b>Depth ft</b>		<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	
Guide Shoe	5.5			12475		Top Plug	5.5		HES	
Float Shoe	5.5					Bottom Plug	5.5		HES	
Float Collar	5.5					SSR plug set	5.5		HES	
Insert Float	5.5					Plug Container	5.5		HES	
Stage Tool	5.5					Centralizers	5.5		HES	
<b>Fluid Data</b>										
<b>Stage/Plug #: 1</b>										
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>	
1	10.5 lb/gal Tuned Spacer III	Tuned Spacer III	60	bbl	10.5	6.43		6		
0.70 gal/bbl		<b>MUSOL A, 330 GAL TOTE - (790828)</b>								
86.45 lbm/bbl		<b>BARITE, BULK (100003681)</b>								

35.70 gal/bbl		FRESH WATER							
0.70 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)							
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		6	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	710	sack	13.5	1.68		6	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
5	Biocide Water and MMCR	Biocide Water and MMCR	20	bbl	8.34				
0.50 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
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	280	bbl	8.34				
Cement Left In Pipe		Amount	93 ft			Reason		Shoe Joint	

5 bbl 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	6/26/2017	14:00:00	USER	OL time 1700. Verify equipment and materials
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	6/26/2017	17:00:00	USER	Rig running casing. Sign in with customer. Spot in and rig up equipment. TD 12485' 7.875" hole. TP 12475' 5.5" 17# P-110. Float collar 12384'. MW 9.3 ppg. Water tested PH 7 chlorides <200 sulfates <100 Temp 60 degrees.
Event	3	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/26/2017	20:20:00	USER	Discuss job procedure with HES and rig crew.
Event	4	Start Job	Start Job	6/26/2017	20:48:18	COM1	Fill lines 3 bbl water
Event	5	Test Lines	Test Lines	6/26/2017	20:51:09	COM1	500 psi kickout test and 5000 psi pressure test.
Event	6	Drop Bottom Plug	Drop Bottom Plug	6/26/2017	20:53:00	USER	
Event	7	Pump Spacer 1	Pump Spacer 1	6/26/2017	20:53:38	COM1	60 bbl tuned spacer 10.5 ppg with surfactants.
Event	8	Pump Lead Cement	Pump Lead Cement	6/26/2017	21:06:27	COM1	150sks/42 bbl first lead without cbl. 13.2 ppg 1.57 ft3/sk 7.53 gal/sk
Event	9	Check Weight	Check Weight	6/26/2017	21:08:00	USER	13.2 ppg
Event	10	Pump Lead Cement	Pump Lead Cement	6/26/2017	21:13:18	COM1	390 sks/109 bbl 2nd lead 13.2 ppg 1.57 ft3/sk 7.54 gal/sk
Event	11	Pump Tail Cement	Pump Tail Cement	6/26/2017	21:27:30	COM1	710 sks/212 bbl tail 13.5 ppg 1.68 ft3/sk 7.98 gal/sk
Event	12	Check Weight	Check weight	6/26/2017	21:37:12	COM1	13.5 ppg
Event	13	Shutdown	Shutdown	6/26/2017	21:57:08	COM1	Wash pumps and lines to cement tank and blow down with rig air.

Event	14	Drop Top Plug	Drop Top Plug	6/26/2017	22:06:03	COM1	Witnessed by customer rep
Event	15	Pump Displacement	Pump Displacement	6/26/2017	22:06:06	COM1	280 bbl water displacement. 5 bbl spacer to surface
Event	16	Bump Plug	Bump Plug	6/26/2017	22:48:17	COM1	2200 psi final circulating pressure. Pressured up to 2650 psi for one minute
Event	17	Pressure Up Well	Pressure Up Well	6/26/2017	22:50:29	COM1	3000 psi casing pressure test for 15 minutes. Test was good.
Event	18	Other	Check floats	6/26/2017	23:06:37	COM1	3 bbl back. Floats held
Event	19	End Job	End Job	6/26/2017	23:18:54	COM1	
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/26/2017	23:20:00	USER	
Event	21	Depart Location Safety Meeting	Depart Location Safety Meeting	6/26/2017	23:55:00	USER	

## 3.0 Attachments

### 3.1 Job Chart

Custom Results



