

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300466		<b>Ship To #:</b> 3855582		<b>Quote #:</b> 0022456471		<b>Sales Order #:</b> 0904940708				
<b>Customer:</b> ANADARKO PETROLEUM CORP-EBUS				<b>Customer Rep:</b> Terry Hackford						
<b>Well Name:</b> GEORGE			<b>Well #:</b> 25-6HZ		<b>API/UWI #:</b> 05-123-46333-00					
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> HUDSON		<b>County/Parish:</b> WELD		<b>State:</b> COLORADO				
<b>Legal Description:</b> SW NE-25-2N-65W-2325FNL-2045FEL										
<b>Contractor:</b> XTREME DRLG				<b>Rig/Platform Name/Num:</b> XTREME 22						
<b>Job BOM:</b> 7523 7523										
<b>Well Type:</b> HORIZONTAL GAS										
<b>Sales Person:</b> HALAMERICA\HX41066				<b>Srv Supervisor:</b> Thomas Haas						
<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>		16136ft		<b>Job Depth TVD</b>		7178				
<b>Water Depth</b>				<b>Wk Ht Above Floor</b>		4'				
<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	0	9.625	8.921	36		J-55	0	1875	0	1875
Casing	0	5.5	4.892	17	LTC	HCP110	0	16136	0	7178
Open Hole Section			7.875				1875	16146	1875	7178
<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					Top Plug	5.5	1	WF	
Float Shoe	5.5	1	WF	16136		Bottom Plug	5.5	1	WF	
Float Collar	5.5	1	WF	16134		SSR plug set	5.5			
Insert Float	5.5					Plug Container	5.5	1	HES	
Wet Shoe Sub	5.5	1	WF	16126		Centralizers	5.5			
<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	Tuned Spacer III	Tuned Spacer III	60	bbl	10.5	6.96	44.4	5	2148	
0.70 gal/bbl		<b>DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)</b>								
79.92 lbm/bbl		<b>BARITE, BULK (100003681)</b>								
0.70 gal/bbl		<b>MUSOL(R) A, 5 GAL PAIL (100064220)</b>								

35.50 gal/bbl		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
2	Gasstop B1	GASSTOP (TM) SYSTEM	630	sack	13.2	1.59	7.83	6	4932
0.05 %		FE-2 (100001615)							
0.60 %		SCR-100 (100003749)							
5.23 Gal		FRESH WATER							
0.10 Gal		D-AIR 3000L, TOTETANK (101396181)							
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	EconoCem	ECONOCEM (TM) SYSTEM	880	sack	13.5	1.68	7.98	8	7022
0.10 %		SA-1015, 50 LB SACK (102077046)							
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
4	Biocide Water and MMCR	Biocide Water and MMCR	20	bbl	8.34			8	
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
5	Biocide Water	Biocide Water	354	bbl	8.34			6	
Cement Left In Pipe		Amount	NONE		Reason			Shoe Joint	
Mix Water:	Ph 7	Mix Water Chloride:	<300 ppm			Mix Water Temperature:	64 °F		
Cement Temperature:	N/A	Plug Displaced by:	8.33 lb/gal F.W.			Disp. Temperature:	64 °F		
Plug Bumped?	Yes	Bump Pressure:	2200 psi			Floats Held?	Yes		
Cement Returns:	NONE	Returns Density:	N/A			Returns Temperature:	N/A		
Comment Plug bumped at calculated displacement, final circulating pressure of 2200 psi, held 15 Min pressure test @3000 psi, pressured up to shift sleeve, sleeve shifted at 4950 psi, checked floats floats held, 2.5 bbl back to truck. Nothing returned 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	6/23/2018	14:00:00	USER	CREW CALLED OUT AT 14:00 6/23/2018, REQUESTED ON LOCATION 20:00 6/23/2018. CREW PICKED UP CEMENT, CHEMICALS (45 GAL MUSOL A, 45 GAL DUAL SPACER B, 63 GAL D-AIR, 10 GAL MMCR), 200 LBS SUGAR, PLUG CONTAINER AND MANIFOLD FROM FORT LUPTON, CO. BULK 660: 11610427/10924982, BULK 660: 11562570/12051660, CHEMICAL TRUCK: 11532305/12051660, PUMP ELITE 11897034/11645450
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/23/2018	18:15:00	USER	DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW
Event	3	Crew Leave Yard	Crew Leave Yard	6/23/2018	18:30:00	USER	STARTED JOURNEY MANAGEMENT.
Event	4	Arrive At Loc	Arrive At Loc	6/23/2018	19:00:00	USER	END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING: 9.625" 36# @ 1875', CASING: 5.5" 17# @ 16123', 13' SHOE JOINT, 7.875" OPEN HOLE, TVD @ 7178', 9.4 PPG WELL FLUID, FRESH WATER DISPLACEMENT.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/23/2018	19:10:00	USER	HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP AND WEATHER.
Event	6	Rig-Up Equipment	Rig-Up Equipment	6/23/2018	19:20:00	USER	CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON, AND WATER HOSES TO PERFORM JOB.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/24/2018	00:00:00	USER	MEETING WITH HALLIBURTON AND RIG PERSONNEL. COMMUNICATED POTENTIAL SAFETY HAZARDS AND JOB DETAILS.
Event	8	Start Job	Start Job	6/24/2018	00:16:52	COM4	BEGIN JOB DATA RECORDING.

Event	9	Test Lines	Test Lines	6/24/2018	00:20:58	COM4	PRESSURE TESTED IRON TO 6500 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 900 PSI, 5TH GEAR STALL OUT @ 2320 PSI.
Event	10	Pump Spacer 1	Pump Spacer 1	6/24/2018	00:49:18	COM4	PUMP 60 BBLS OF TUNED SPACER @ 10.5 LB/GAL, ADDED 45 GAL MUSOL A, 45 GAL DUAL SPACER B, 10 GAL D-AIR, DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	11	Shutdown	Shutdown	6/24/2018	01:02:20	USER	SHUTDOWN TO DROP BOTTOM PLUG.
Event	12	Drop Bottom Plug	Drop Bottom Plug	6/24/2018	01:09:32	USER	PLUG LEFT PLUG CONTAINER, VERIFIED BY COMPANY MAN
Event	13	Pump Lead Cement	Pump Lead Cement	6/24/2018	01:10:07	COM4	PUMP 630 SKS OF GASSTOP @ 13.2 LB/GAL, 1.59 YIELD, 7.6 GAL/SK, 113 BBLS, CALCULATED TOL @ 1854', MIX WATER MIXED WITH 1575 GAL OF LATEX AND 65 GAL D-AIR, DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	14	Pump Tail Cement	Pump Tail Cement	6/24/2018	01:41:26	COM4	PUMP 880 SKS OF ECONOCEM @ 13.5 LB/GAL, 1.68 YIELD, 7.98 GAL/SK, 230 BBLS, CALCULATED TOT @ 7615', DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	15	Shutdown	Shutdown	6/24/2018	02:17:39	USER	SHUTDOWN TO CLEAN PUMPS AND LINES. AND TO LOAD THE TOP PLUG.
Event	16	Clean Lines	Clean Lines	6/24/2018	02:24:44	USER	CLEAN PUMPS AND LINES. TOP PLUG LOADED.
Event	17	Drop Top Plug	Drop Top Plug	6/24/2018	02:29:46	COM4	PLUG LEFT PLUG CONTAINER, VERIFIED BY COMPANY MAN.
Event	18	Pump Displacement	Pump Displacement	6/24/2018	02:29:50	COM4	BEGIN CALCULATED DISPLACEMENT OF 374 BBLS WITH FRESH WATER. MMCR AND BIOCIDES ADDED TO 1ST 20 BBLS. BIOCIDES ADDED THROUGH REST OF DISPLACEMENT.
Event	19	Bump Plug	Bump Plug	6/24/2018	03:39:12	USER	PLUG BUMPED AT CALCULATED DISPLACEMENT, FINAL CIRCULATING PSI OF 2200 PSI.
Event	20	Other	Casing Test	6/24/2018	03:40:19	COM4	15 MIN CASING TEST AT 3000 PSI.

Event	21	Other	Shift Wet Shoe Sleeve	6/24/2018	03:43:07	USER	PRESSURE UP TO SHIFT WET SHOE SLEEVE, SHIFTED AT 4980 PSI.
Event	22	Other	Pump Wet Shoe	6/24/2018	03:55:17	USER	PUMP 3 BBL WET SHOE.
Event	23	Check Floats	Check Floats	6/24/2018	03:58:35	USER	RELEASED PRESSURE BACK TO THE TRUCK, 2.5BBL BACK, FLOATS HELD.
Event	24	End Job	End Job	6/24/2018	04:01:49	COM4	
Event	25	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/24/2018	09:00:00	USER	DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	26	Rig-Down Completed	Rig-Down Completed	6/24/2018	09:10:00	USER	ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL.
Event	27	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/24/2018	09:20:00	USER	DISCUSSED ROUTES HAZARDS AND COMMUNICATION WITH CREW.
Event	28	Crew Leave Location	Crew Leave Location	6/24/2018	09:30:00	USER	THANK YOU FOR USING HALLIBURTON - THOMAS HAAS AND CREW.

## 3.0 Attachments

### 3.1 Job Chart

