

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3855582	Quote #: 0022456471	Sales Order #: 0904940708
Customer: ANADARKO PETROLEUM CORP-EBUS		Customer Rep: Terry Hackford	
Well Name: GEORGE		Well #: 25-6HZ	API/UWI #: 05-123-46333-00
Field: WATTENBERG	City (SAP): HUDSON	County/Parish: WELD	State: COLORADO
Legal Description: SW NE-25-2N-65W-2325FNL-2045FEL			
Contractor: XTREME DRLG		Rig/Platform Name/Num: XTREME 22	
Job BOM: 7523 7523			
Well Type: HORIZONTAL GAS			
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Thomas Haas	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	16136ft	Job Depth TVD	7178
Water Depth		Wk Ht Above Floor	4'
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	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

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
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			

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	6.96	44.4	5	2148	
	0.70 gal/bbl	DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
	79.92 lbm/bbl	BARITE, BULK (100003681)								
	0.70 gal/bbl	MUSOL(R) A, 5 GAL PAIL (100064220)								

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

