

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3841745		Quote #: 0022430339		Sales Order #: 0904786452				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: Albert						
Well Name: AZUL			Well #: 13-1HZ		API/UWI #: 05-123-45916-00					
Field: WATTENBERG		City (SAP): IONE		County/Parish: WELD		State: COLORADO				
Legal Description: SW SW-13-1N-66W-921FSL-1159FWL										
Contractor: XTREME DRLG				Rig/Platform Name/Num: XTREME 22						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Ryan Stevens						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		12715'		Job Depth TVD		7421'				
Water Depth				Wk Ht Above Floor		5'				
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		1888		
Casing	New	5.5	4.892	17	LTC	HCP110		12715		7421
Open Hole Section			7.875				1888	12726		7421
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe						Top Plug	5.5	1	Weath	
Float Shoe	5.5	1	Weath	12715		Bottom Plug	5.5	1	Weath	
Float Collar	5.5	1	Weath	12713		SSR plug set				
Insert Float						Plug Container	5.5	1	HES	
Stage Tool						Centralizers				
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		4	3,040	
37.58 gal/bbl		FRESH WATER								
0.70 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
0.25 gal/bbl		D-AIR 3000L, 5 GAL PAIL (101007444)								

0.70 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)							
86.45 lbm/bbl		BARITE, BULK (100003681)							
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 B2	GASSTOP (TM) SYSTEM	400	sack	13.2	1.583	7.6	6	3,040
0.10 %		FE-2 (100001615)							
0.38 %		SCR-100 (100003749)							
6.20 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
3	EconoCem	ECONOCEM (TM) SYSTEM	730	sack	13.5	1.68	7.99	8	5,832
0.15 %		SA-1015, 50 LB SACK (102077046)							
7.99 Gal		FRESH WATER							
0.36 %		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				840
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	275	bbl	8.34			10	11,550
Cement Left In Pipe	Amount	0 ft			Reason			Wet Shoe Joint	
Mix Water:	pH 7	Mix Water Chloride:	0 ppm			Mix Water Temperature:	55 °F		
Cement Temperature:		Plug Displaced by:	8.34 lb/gal			Disp. Temperature:	55 °F		
Plug Bumped?	Yes	Bump Pressure:	2904 psi			Floats Held?	Yes		
Cement Returns:	0 bbl	Returns Density:				Returns Temperature:			
Comment CALCULATED TOP OF LEAD @ 2004									
CALCULATED TOP OF TAIL @ 5651									
CALCULATED TOP OF SPACER 752, NO CEMENT BACK 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	4/16/2018	16:30:00	USER	CREW CALLED OUT AT 16:30, REQUESTED ON LOCATION 10:00. CREW PICKED UP CEMENT, CHEMICALS, AND PLUG CONTAINER FROM FT. LUPTON, CO. BULK 660 AND PUMP 11645460.
Event	2	Crew Leave Location	Crew Leave Location	4/16/2018	19:24:12	USER	THANKS RYAN STEVENS AND CREW
Event	3	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	4/16/2018	20:30:00	USER	CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW
Event	4	Crew Leave Yard	Crew Leave Yard	4/16/2018	20:38:00	USER	STARTED JOURNEY MANAGEMENT.
Event	5	Arrive At Loc	Arrive At Loc	4/16/2018	21:00:00	USER	END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING- 9.625" 36 LB/FT @ 1,888', 5.5" CASING: 17 LB/FT TOTAL 12,715', 7.875" HOLE, TD 12,726', 2' SHOE TRAC, TVD- 7,421'. PUMP FRESH WATER DISPLACEMENT WITH MMCR.
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	4/16/2018	21:10:00	USER	HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP, AND WEATHER.
Event	7	Rig-Up Equipment	Rig-Up Equipment	4/16/2018	21:20:00	USER	CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON AND WATER HOSES TO PERFORM JOB.
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	4/16/2018	23:00:00	USER	SAFETY MEETING WITH HALLIBURTON, AND RIG PERSONNEL. CREW COMMUNICATED POTENTIAL SAFETY HAZARDS, AND JOB DETAILS.
Event	9	Start Job	Start Job	4/17/2018	00:45:56	COM4	START RECORDING JOB DATA
Event	10	Test Lines	Test Lines	4/17/2018	00:52:53	COM4	PRESSURE TESTED IRON TO 6,504 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 600 PSI, 5TH GEAR STALL OUT @ 1900 PSI.

Event	11	Pump Spacer 1	Pump Spacer 1	4/17/2018	00:59:48	COM4	PUMP 60 BBLS OF TUNED SPACER @ 10.5 LBS/GAL.
Event	12	Drop Bottom Plug	Drop Bottom Plug	4/17/2018	01:10:09	COM4	VERIFEID BY COMPANY REP.
Event	13	Pump Lead Cement	Pump Lead Cement	4/17/2018	01:13:09	COM4	PUMPED 400 SKS OF GASSTOP CEMENT @ 13.2 LB/GAL, 1.58 FT3/SK, 7.6 GAL/SK. 112.42 BBLS, HOL CALCULATED @ 3,647 TOL @ 2,004'. DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	14	Pump Tail Cement	Pump Tail Cement	4/17/2018	01:43:26	COM4	PUMP 730 SKS OF ECONOCEM @ 13.5 LB/GAL, 1.68 FT3/SK, 7.7.99 GAL/SK, 218.42 BBLS. HOT CALCULATED @ 7.064', TOT CALCULATED @ 5,651. DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	15	Clean Lines	Clean Lines	4/17/2018	02:20:32	COM4	WASH PUMPS AND LINES
Event	16	Drop Top Plug	Drop Top Plug	4/17/2018	02:29:07	COM4	VERIFIED BY COMPANY MAN
Event	17	Pump Displacement	Pump Displacement	4/17/2018	02:29:57	COM4	PUMP CALCULATED DISPLACEMENT OF 295 BBLS WITH FRESH WATER. MMCR IN THE FIRST 20 AND BIOCID THROUGHOUT.
Event	18	Bump Plug	Bump Plug	4/17/2018	03:09:31	COM4	BUMP PLUG @ CALCULATED DISPLACEMENT OF 295 BBLS. FINALCIRCULATING PRESSURE 2,620 BUMP PRESSURE @ 2,904. HELD FOR 5 MINS FOR CASING TEST.
Event	19	Open Valve Downhole	Open Valve Downhole	4/17/2018	03:14:22	USER	OPEN WET SHOE SUB @ 4,561 PUMP 3 BBLS WET SHOE.
Event	20	Check Floats	Check Floats	4/17/2018	03:16:22	USER	2 BBLS BACK FLOATS HELD
Event	21	End Job	End Job	4/17/2018	03:17:04	COM4	STOP RECORDING JOB DATA
Event	22	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	4/17/2018	04:00:00	USER	DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	23	Rig-Down Completed	Rig-Down Completed	4/17/2018	05:00:00	USER	ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.
Event	24	Crew Leave Location	Crew Leave Location	4/17/2018	05:45:00	USER	THANKS FOR USING HALLIBURTON RYAN

3.0 Attachments

3.1 Job Chart

