

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 0003841836		Quote #: 0022418610		Sales Order #: 0904714619				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: Jeremy Wilde						
Well Name: AZUL			Well #: 13-10HZ		API/UWI #: 05-123-45918-00					
Field: WATTENBERG		City (SAP): HUDSON		County/Parish: WELD		State: COLORADO				
Legal Description: SE SW-13-1N-66W-918FSL-1354FWL										
Contractor:				Rig/Platform Name/Num: Xtreme 22						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Adam Covington						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		12848ft		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	1861	0	0
Casing		5.5	4.892	17	LTC	HCP110	0	12848	0	7349
Open Hole Section			7.875				1861	12858	0	7349
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5			12848		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	
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	80	bbl	10.5	6.43				
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	ElastiCem	ELASTICEM (TM) SYSTEM	630	sack	13.2	1.57		6	7.53
0.10 %		SUPER CBL, 50 LB PAIL (100003668)							
0.45 %		SCR-100 (100003749)							
7.53 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	740	sack	13.5	1.68		6	7.99
8 Gal		FRESH WATER							
0.35 %		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	Biocide Water	298	bbl	8.34				
Cement Left In Pipe		Amount	9 ft		Reason			Shoe Joint	
Comment TOT5690 Ft TOL 1856 ft 48 bbls of spacer 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	3/17/2018	04:00:00	USER	CALLED OUT BY SERVICE COORDINATOR FOR O/L AT 1000
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/17/2018	08:30:00	USER	HELD MEETING WITH ALL PERSONNEL IN CONVOY TO DISCUSS DIRECTIONS AND HAZARDS ASSOCIATED WITH DRIVING, ALL FIT TO DRIVE.
Event	3	Depart Shop for Location	Depart Shop for Location	3/17/2018	09:00:00	USER	JOURNEY MANAGEMENT PRIOR TO DEPARTURE
Event	4	Arrive At Loc	Arrive At Loc	3/17/2018	09:30:00	USER	UPON ARRIVAL MET WITH COMPANY MAN TO DISCUSS JOB DETAILS AND CALCULATIONS, PERFORMED HAZARD HUNT AND SITE ASSESSMENT.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/17/2018	09:45:00	USER	DISCUSSED RIGGING UP HAZARDS AND PROCEDURE ACCORDING TO HMS. Water test- PH-6, Chlor-0, Temp-52
Event	6	Safety Meeting - Pre Job	Safety Meeting - Pre Job	3/17/2018	12:15:00	USER	HELD SAFETY MEETING WITH ALL JOB ASSOCIATED PERSONNEL TO DISCUSS JOB PROCEDURE, HAZARDS AND STOP WORK AUTHORITY.
Event	7	Start Job	Start Job	3/17/2018	13:35:59	COM4	FILLED LINES WITH 3 BBLS OF FRESH WATER. 1.5 BPM 50 PSI.
Event	8	Test Lines	Test Lines	3/17/2018	13:39:57	COM4	PERFORMED A 5500 PRESSURE TEST. AFTER DOING A 500 KICKOUT TEST AND 5TH GEAR STALL. HELD FOR 3 MINUTES. NO LEAKS.
Event	9	Pump Spacer 1	Pump Spacer 1	3/17/2018	13:53:08	COM4	PUMPED 80 BBLS OF 10.5#, 6.43 Y, 41.3 TUNED SPACER AT 4 BPM. 495 PSI.
Event	10	Drop Bottom Plug	Drop Bottom Plug	3/17/2018	14:15:00	USER	DROPPED NON HALLIBURTON 5.5" BOTTOM PLUG. CO MAN WITNESSED. DROPPED BY ADAM COVINGTON.

Event	11	Pump Cement	Pump Cement	3/17/2018	14:16:26	COM4	PUMPED 176 BBLS (630 SKS) OF 13.2#, 1.57 Y, 7.53 WR LEAD CEMENT AT 8 BPM 487 PSI.
Event	12	Check Weight	Check Weight	3/17/2018	14:26:39	COM4	CHECKED WEIGHT USING PRESSURIZED MUD SCALES. 13.2#
Event	13	Pump Tail Cement	Pump Tail Cement	3/17/2018	14:42:06	COM4	PUMPED 221 BBLS (740 SKS) OF 13.5#, 1.68 Y, 7.99 WR. TAIL CEMENT AT 8 BPM 490 PSI.
Event	14	Shutdown	Shutdown	3/17/2018	15:15:12	COM4	SHUTDOWN TO WASH PUMPS AND LINES AND DROP PLUG.
Event	15	Drop Top Plug	Drop Top Plug	3/17/2018	15:21:20	COM4	DROPPED NON HALLIBURTON 5.5" TOP PLUG. WITNESSED BY CO. MAN AND DROPPED BY ADAM COVINGTON.
Event	16	Pump Displacement	Pump Displacement	3/17/2018	15:22:20	COM4	PUMPED 298 BBLS OF BIOCIDES DISPLACEMENT, WITH THE FIRST 20 BBLS WITH MMCR. 10 BPM 400 PSI. FULL RETURNS THROUGHOUT JOB.
Event	17	Displ Reached Cement	Displ Reached Cement	3/17/2018	15:32:39	COM4	DISPLACEMENT REACHED CEMENT AT 50 BBLS OF DISPLACEMENT AWAY.
Event	18	Bump Plug	Bump Plug	3/17/2018	16:09:27	COM4	BUMPED 5.5" NON HALLIBURTON PLUG. FCP 2550 PSI BUMP 2960 PSI.
Event	19	Other	Other	3/17/2018	16:10:28	USER	PERFORMED A 15 MIN, 3000 PSI CASING TEST. THEN BLEED PRESSURE OFF AS PER CO. MAN.
Event	20	Other	Other	3/17/2018	16:22:34	COM4	PUMPED 5 BBLS OF FRESH WATER TO OPEN UP SUB. SUB OPENED AT 5011 PSI AT 2 BPM. THEN WENT TO 4 BPM AND PUMPED A 3 BBL WET SHOE. 2450 PSI. CHECKED FLOATS. 2.5 BBLS BACK TO THE TRUCK, FLOATS HELD.
Event	21	End Job	End Job	3/17/2018	16:28:54	COM4	TOT 5690 FT. TOL 1856 FT.
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	3/17/2018	16:35:00	USER	DISCUSSED RIGGING DOWN HAZARDS AND PROCEDURE ACCORDING TO HMS.
Event	23	Depart Location Safety Meeting	Depart Location Safety Meeting	3/17/2018	17:50:00	USER	HELD MEETING WITH ALL HES EMPLOYEES

							IN CONVOY TO DISCUSS DIRECTIONS AND HAZARDS ASSOCIATED WITH DRIVING, ALL FIT TO DRIVE.
Event	24	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	3/17/2018	18:00:00	USER	PRE JOURNEY MANAGEMENT PRIOR TO DEPARTURE.

3.0 Attachments

3.1 Job Chart

