

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 0003841744		Quote #: 0022416783		Sales Order #: 0904710053				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: JEREMY WILDE						
Well Name: AZUL			Well #: 13-11HZ		API/UWI #: 05-123-45914-00					
Field: WATTENBERG		City (SAP): HUDSON		County/Parish: WELD		State: COLORADO				
Legal Description: SE SW-13-1N-66W-918FSL-1384FWL										
Contractor:				Rig/Platform Name/Num: Xtreme 22						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Vitali Neverdasov						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		12299ft		Job Depth TVD		7364				
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	1871	0	1871
Casing	0	5.5	4.892	17	LTC	HCP110	0	12299	0	7364
Open Hole Section			7.875				1857	12310	1871	7364
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5	1	WHED	
Float Shoe	5.5	1	N/A	12299		Bottom Plug	5.5	1	WHED	
Float Collar	5.5	1	N/A	12281		SSR plug set	5.5			
Insert Float	5.5					Plug Container	5.5	1	HES	
Stage Tool	5.5					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	80	bbl	10.5	6.25		4		
37.58 gal/bbl		FRESH WATER								
0.70 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
0.70 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)								

88.91 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		8	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	ECONOCER (TM) SYSTEM	680	sack	13.5	1.68		8	7.99
7.99 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
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	285	bbl	8.34			8	
Cement Left In Pipe			ft		Reason			WET SHOE	
Comment : ESTIMATED TOT @ 5719'. TOL @ 672'. 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	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	3/13/2018	19:00:00	USER				ON LOCATION @ 00:30
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	3/13/2018	21:00:00	USER				JSA PRIOR LEAVING THE YARD
Event	3	Depart Shop for Location	Depart Shop for Location	3/13/2018	21:30:00	USER				CALLED JORNEY
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	3/14/2018	00:28:00	USER				5 MILES. DISCUSS NUMBERS AND PROCEDURE WITH CUSTOMER. RIG IS RUNNING CASING.
Event	5	Other	Other	3/14/2018	00:40:00	USER				SPOT TRUCKS
Event	6	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	3/14/2018	00:45:00	USER				RIG UP SAFETY MEETING
Event	7	Rig-up Lines	Rig-up Lines	3/14/2018	00:50:00	USER				RIG UP ALL LINES TO THE BUFFER ZONE
Event	8	Casing on Bottom	Casing on Bottom	3/14/2018	02:00:00	USER				CASING LANDED
Event	9	Other	Other	3/14/2018	02:15:00	USER				RIG UP FLOOR FOR RIG TO CIRCULATE
Event	10	Safety Meeting - Pre Job	Safety Meeting - Pre Job	3/14/2018	02:57:00	USER	0.21	0.00	45.00	HELD JSA WITH ALL PERSONAL INVOLVED IN CEMENT JOB
Event	11	Start Job	Start Job	3/14/2018	03:19:26	COM4	8.75	0.00	50.00	
Event	12	Test Lines	Test Lines	3/14/2018	03:23:16	COM4	8.42	0.00	2303.00	LOAD AND TEST LINE AND PRESSURE TEST TO 6170 PSI
Event	13	Drop Bottom Plug	DROP BOTTOM PLUG	3/14/2018	03:30:00	USER	8.32	0.00	69.00	

Event	14	Pump Spacer 1	Pump Spacer 1	3/14/2018	03:32:15	COM4	10.35	3.30	405.00	BATCH/WEIGH/PUMP 80 BBLs OF TUNED SPACER WITH SURFACTANTS @ 10.5 PPG
Event	15	Pump Lead Cement	Pump Lead Cement	3/14/2018	03:53:21	COM4	13.29	6.90	1110.00	BATCH/WEIGH/PUMP 630 SKS (176.2 BBLs) OF ELASTICEM @ 13.2 PPG
Event	16	Pump Tail Cement	Pump Tail Cement	3/14/2018	04:15:11	COM4	13.11	8.00	723.00	WEIGH/PUMP 680 SKS (203.5 BBLs) OF ECONOCEM @ 13.5 PPG
Event	17	Shutdown	Shutdown	3/14/2018	04:45:00	USER	13.52	0.00	6.00	WASH PUMPS AND LINES
Event	18	Drop Top Plug	Drop Top Plug	3/14/2018	04:58:52	COM4	8.06	0.00	1.00	
Event	19	Pump Displacement	Pump Displacement	3/14/2018	05:00:54	COM4	8.05	10.00	546.00	FIRST 20 BBLs WITH MMCR, AND REMAINDER WITH BIOCIDE.
Event	20	Bump Plug	Bump Plug	3/14/2018	05:48:41	COM4	8.37	0.00	2954.00	HOLD PRESSURE FOR 5 MIN CASING TEST. DISPLACEMENT 285.5 BBLs. 48 BBLs OF SPACER BACK TO SURFACE.
Event	21	Other	Other	3/14/2018	05:53:00	USER	8.36	2.80	2443.00	BURST DISC @ 4810 PSI AND PUMP 3 BBLs WET SHOE.
Event	22	Shutdown	Shutdown	3/14/2018	05:54:00	USER	8.34	0.00	1847.00	
Event	23	Check Floats	Check Floats	3/14/2018	05:55:00	USER	8.28	0.00	9.00	FLOLATS HOLD
Event	24	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig- Down	3/14/2018	05:58:00	USER	8.28	0.00	4.00	RIG DOWN JSA
Event	25	End Job	End Job	3/14/2018	06:08:17	COM4	8.32	2.00	12.00	

3.0 Job Chart

3.1 Job Chart

