

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3841838		Quote #: 0022424299		Sales Order #: 0904746337				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: T. Lourance						
Well Name: AZUL			Well #: 13-6HZ		API/UWI #: 05-123-45912-00					
Field: WATTENBERG		City (SAP): HUDSON		County/Parish: WELD		State: COLORADO				
Legal Description: SW SW-13-1N-66W-920FSL-1264FWL										
Contractor: XTREME DRLG				Rig/Platform Name/Num: XTREME 22						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: Nicholas Roles						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		12844ft		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	1870	0	1870
Casing		5.5	4.892	17	LTC	HCP110	0	12844	0	7305
Open Hole Section			7.875				1870	12854	1870	7305
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5			12844		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	1	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	60	bbl	10.5	6.43		5		
0.70 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)								
86.45 lbm/bbl		BARITE, BULK (100003681)								
0.3330 gal/bbl		D-AIR 3000L, 5 GAL PAIL (101007444)								

37.58 gal/bbl		FRESH WATER							
0.70 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)							
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	400	sack	13.2	1.59		6	7.69
0.10 %		FE-2 (100001615)							
0.40 %		SCR-100 (100003749)							
5.09 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		8	7.99
0.20 %		SA-1015, 50 LB SACK (102077046)							
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			10	
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	278	bbl	8.34			10	
Cement Left In Pipe		Amount	0 ft		Reason			Wet Shoe	
Comment Got 0bbls spacer back to pits. Estimated TOT-5676', TOL-2019', TOS-722'									

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	3/31/2018	03:00:00	USER	Crew call out for o/l at 0800
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/31/2018	06:15:00	USER	All crew aware of hazards and directions. All fit to drive.
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	3/31/2018	06:30:00	USER	Started journey management.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	3/31/2018	07:00:00	USER	Met with company man to discuss job details and procedure. Performed hazard hunt and site assessment.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/31/2018	07:15:00	USER	All hse present. Discussed bulk and iron placement and all red zone areas. Caution taped high pressure zones.
Event	6	Other	Other	3/31/2018	08:00:00	USER	Water Test- PH-6 Chlo-0 Temp-60 Cement temp-70
Event	7	Safety Meeting - Pre Job	Safety Meeting - Pre Job	3/31/2018	11:30:00	USER	Discussed job associated hazards, contingencies and job procedure with all job associated personel.
Event	8	Start Job	Start Job	3/31/2018	11:46:03	COM4	TD-12854', TP-12844' 5.5" 17#, WS Baffl-12836', TVD-7305', OH-7.875", SURF-1870' 9.625" 36#, MUD-9.6#
Event	9	Test Lines	Test Lines	3/31/2018	11:51:20	COM4	Pumped 5bbls fresh water to fill lines, shutdown, closed manifold, performed 500psi k/o function test, continued with 5th gear stall at 1400psi, proceeded to bring pressure to 5500psi. Pressure stabilized and held with no leaks.
Event	10	Pump Spacer 1	Pump Spacer 1	3/31/2018	11:59:35	COM4	Pumped 60bbls of 10.5# 6.25Y 40.2g/s Tuned Spacer III with 45g Musol A, 45g Dual Spacer B, 10g D-Air at 5bpm 530psi.

Event	11	Pump Lead Cement	Pump Lead Cement	3/31/2018	12:22:17	COM4	Pumped 400sk or 113bbbls of 13.2# 1.59y 7.69g/s Gasstop with 1000g of Latex and 50g of D-Air at 6bpm 320psi.
Event	12	Check Weight	Check Weight	3/31/2018	12:34:12	USER	Weight verified with pressurized mud scales.
Event	13	Pump Tail Cement	Pump Tail Cement	3/31/2018	12:45:46	COM4	Pumped 740sk or 221.5bbbls of 13.5# 1.68Y 7.9G/S Econocem at 8bpm 505psi.
Event	14	Check Weight	Check Weight	3/31/2018	12:59:02	COM4	Weight verified with pressurized mud scales.
Event	15	Shutdown	Shutdown	3/31/2018	13:21:42	COM4	
Event	16	Clean Lines	Clean Lines	3/31/2018	13:21:54	COM4	Shutdown, rig blew down iron with air, followed with 5bbbls fresh water through pumps and lines.
Event	17	Drop Top Plug	Drop Top Plug	3/31/2018	13:27:12	COM4	Dropped by HES supervisor, witnessed by company man.
Event	18	Pump Displacement	Pump Displacement	3/31/2018	13:34:00	COM4	Pumped 298bbbls fresh water with 10g MMCR in first 20bbbls, followed with 5g biocide throughout at 10bpm.
Event	19	Bump Plug	Bump Plug	3/31/2018	14:17:00	COM4	Slowed down at 280bbbls away to 3bpm, Final Circulating Pressure-2500psi, Bump Pressure-2950psi. Held at 3000psi for 15min casing test.
Event	20	Pressure Up Well	Pressure Up Well	3/31/2018	14:32:24	USER	Proceeded to bring pressure up to sheer at 5000psi, continued to pump 3bbbls at 4bpm 2900psi for wet shoe.
Event	21	Check Floats	Check Floats	3/31/2018	14:33:50	USER	Released pressure and got 2.5bbbls back to truck. Floats held.
Event	22	End Job	End Job	3/31/2018	14:35:40	COM4	Got 0bbls spacer back to pits. Estimated TOT-5676', TOL-2019', TOS-722'
Event	23	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig-Down	3/31/2018	14:45:00	USER	All HSE present. Discussed red zone areas and trapped pressure hazards. Watch for suspended loads and rig down procedures, including hand placement, lifting techniques, and swing radius.
Event	24	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/31/2018	15:45:00	USER	All HSE present and fit to drive. Aware of

directions and hazards.

Event	25	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	3/31/2018	16:00:00	USER	Pre journey managment prior to departure.
-------	----	--	--	-----------	----------	------	---

3.0 Attachments

3.1 Job Chart

Custom Results

