

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3847933		Quote #: 0022445215		Sales Order #: 0904871477				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: LEVI ROGERS						
Well Name: AZUL			Well #: 13-20HZ			API/UWI #: 05-123-46104-00				
Field: WATTENBERG		City (SAP): HUDSON		County/Parish: WELD		State: COLORADO				
Legal Description: SE SW-13-1N-66W-747FSL-2326FWL										
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 464						
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		12717ft				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	1873	0	0
Casing		5.5	4.892	17	LTC	HCP110	0	12717	0	0
Open Hole Section			7.875				1873	12727	0	0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5	1	HES	
Float Shoe	5.5	1	NES	12717		Bottom Plug	5.5	1	HES	
Float Collar	5.5	1	HES	12705		SSR plug set	5.5		HES	
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	60	bbl	10.5	6.96				
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)							
79.92 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 B1	GASSTOP (TM) SYSTEM	400	sack	13.2	1.58		8	7.59
0.10 %		FE-2 (100001615)							
0.55 %		SCR-100 (100003749)							
5.08 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		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			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	275	bbl	8.34			8	
Cement Left In Pipe		Amount	ft		Reason WET SHOE			Shoe Joint	
Comment : ESTIMATED TOP OF SPACER @ 684'. TOL @ 1979'. TOT @ 5628'									

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	5/23/2018	00:30:00	USER	ON LOCATION @ 06:00
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	5/23/2018	05:40:00	USER	
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	5/23/2018	05:50:00	USER	5 MILES. DISCUSS NUMBERS AND PROCEDURE WITH CUSTOMER. RIG IS RUNNING CASING
Event	4	Other	Other	5/23/2018	06:00:00	USER	SPOT TRUCKS
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	5/23/2018	06:10:00	USER	HELD PRE RIG UP JSA
Event	6	Casing on Bottom	Casing on Bottom	5/23/2018	08:10:00	USER	CASING LANDED
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/23/2018	09:04:00	USER	PRE JOB SAFETY MEETING WITH ALL PERSONAL INVOLVED.
Event	8	Start Job	Start Job	5/23/2018	09:20:13	COM4	
Event	9	Test Lines	Test Lines	5/23/2018	09:44:05	COM4	LOAD LINE AND TEST TO 7220 PSI
Event	10	Pump Spacer 1	Pump Spacer 1	5/23/2018	09:46:37	COM4	BATCH/ WEIGHT/ PUMP 60 BBLS OF SPACER WITH SURFACTANS @ 10.5 PPG
Event	11	Drop Bottom Plug	Drop Bottom Plug	5/23/2018	09:58:31	COM4	
Event	12	Pump Lead Cement	Pump Lead Cement	5/23/2018	10:07:57	COM4	BATCH/ WEIGHT/ PUMP 400 SKS (112.6 BBLS) OF GASSTOP CEMENT @ 13.2 PPG.
Event	13	Pump Tail Cement	Pump Tail Cement	5/23/2018	10:27:35	COM4	WEIGHT/ PUMP 730 SKS (218.4 BBLS) OF ECONOCEM @ 13.5 PPG
Event	14	Shutdown	Shutdown	5/23/2018	11:01:00	USER	WASH PUMPS AND LINES/ DROP TOP PLUG
Event	15	Pump Displacement	Pump Displacement	5/23/2018	11:09:10	COM4	FIRST 20 BBLS WITH MMCR. REMAINING OF DICPLACEMENT WITH BIOCID. LAST 40 BBLS FRESH WATER TO CLEAN THE LINE.
Event	16	Check Floats	Check Floats	5/23/2018	11:12:00	USER	FLOATS HELD

Event	17	Bump Plug	Bump Plug	5/23/2018	11:57:41	COM4	BUMP PLUG WITH 500 PSI OVER FINAL CIRCULATING PRESSURE OF 3027 PSI. HOLD PRESSURE FOR 15 MIN FOR CASING TEST.
Event	18	Other	Other	5/23/2018	12:16:00	USER	PRESSURE UP , BURST DISC @ 5703 AND PUMP 3 BBLS WET SHOE.
Event	19	Shutdown	Shutdown	5/23/2018	12:18:56	USER	JOB IS COMPLETE
Event	20	End Job	End Job	5/23/2018	12:27:18	COM4	

3.0 Attachments

3.1 Job Chart

