

Sold To #: 300466		Ship To #: 3765225		Quote #: 0022312368		Sales Order #: 0904081316					
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: Luke Raines							
Well Name: BABCOCK		Well #: 35C-33HZ		API/UWI #: 05-123-43804-00							
Field: WATTENBERG		City (SAP): FIRESTONE		County/Parish: WELD		State: COLORADO					
Legal Description: SE NW-4-2N-67W-2138FNL-2055FWL											
Contractor: Precision				Rig/Platform Name/Num: Precision 464							
Job BOM: 7523 7523											
Well Type: HORIZONTAL GAS											
Sales Person: HALAMERICA\HX41066				Srcv Supervisor: Aaron Smith							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		12391ft		Job Depth TVD		7431					
Water Depth				Wk Ht Above Floor		6					
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	1877	0	1877	
Casing		5.5	4.892	17	LTC	HCP110	0	12371	0	7431	
Open Hole Section			7.875				1877	12391	1877	7431	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	5.5					Top Plug	5.5	1	WFM		
Float Shoe	5.5	1	WCS	12371		Bottom Plug	5.5	1	WFM		
Float Collar	5.5	1	WCS	12300		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	
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 - Cap Cement	ELASTICEM (TM) SYSTEM	150	sack	13.2	1.57		5	7.53
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	ElastiCem	ELASTICEM (TM) SYSTEM	390	sack	13.2	1.57		5	7.54
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	EconoCem	ECONOCEM (TM) SYSTEM	700	sack	13.5	1.68		5	7.98
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 and MMCR	Biocide Water and MMCR	20	bbl	8.34				
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
6	Fresh Water	Fresh Water	266	bbl	8.34				
Cement Left In Pipe		Amount	71 ft		Reason			Shoe Joint	
Comment 5 bbls spacer to surface TOTC 5660', TOLC 1165'									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	DS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	6/6/2017	15:30:00	USER				For on location @ 2200
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	6/6/2017	20:00:00	USER				Journey management meeting held prior to departure
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	6/6/2017	20:30:00	USER				Journey called into dispatch,
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	6/6/2017	21:00:00	USER				With all equipment and materials, discussed numbers and job procedures with customer rep, rigged up cement head for rig to circulate through.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/6/2017	21:10:00	USER				JSA to discuss the hazards of rig-up
Event	6	Rig-Up Equipment	Rig-Up Equipment	6/6/2017	21:15:00	USER				Rig-up all surface lines and equipmnet up to the red zone
Event	7	Rig-Up Completed	Rig-Up Completed	6/6/2017	22:00:00	USER				After all casing had been ran
Event	8	Casing on Bottom	Casing on Bottom	6/6/2017	23:00:00	USER				landing joint brought to floor and landed
Event	9	Circulate Well	Circulate Well	6/6/2017	23:15:00	USER				8BPM, 550 psi, 1.5 hrs.
Event	10	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/7/2017	00:05:00	USER				With all essential personnel, to discuss the hazards of pumping the job, and pump schedule.
Event	11	Start Job	Start Job	6/7/2017	01:21:25	COM4				With water supplied from

										frac tanks, water tested good to mix cement ph 7, temp 72, CI 0
Event	12	Test Lines	Test Lines	6/7/2017	01:28:00	USER				@5000 psi, test was good, chart got unplugged, pressure test did not record.
Event	13	Drop Bottom Plug	Drop Bottom Plug	6/7/2017	01:34:34	USER	3.10	8.47	9.00	Pre-loaded WFM bottom plug in plug container, verified by customer rep.
Event	14	Pump Spacer 1	Pump Spacer 1	6/7/2017	01:35:50	USER	3.00	10.97	132.00	60bbls tuned spacer @10.5 ppg, 42 gallons dual spacer b, 42 gallons musol a, 20 gallons de-air. verified with pressurized scales
Event	15	Pump Lead Cement	Pump Lead Cement	6/7/2017	01:54:05	USER	2.60	10.66	36.00	540 sks(150.99 bbls) Elasticem @ 13.2 ppg, verified with pressurized scales. Down Hole caught air from surfactants and was reading high, the recirc was reading 13.4 shutdown and fixed. Re-calibrated downhole.
Event	16	Pump Tail Cement	Pump Tail Cement	6/7/2017	02:21:09	USER	7.00	13.09	481.00	700 sks(209.45 bbls) EconoCem @ 13.5 ppg, verified with pressurized scales.
Event	17	Shutdown	Shutdown	6/7/2017	03:03:01	USER	6.70	13.56	519.00	To wash pumps and lines .
Event	18	Clean Lines	Clean Lines	6/7/2017	03:06:00	USER	3.00	13.32	132.00	Wash pumps and lines to the pit.
Event	19	Drop Top Plug	Drop Top Plug	6/7/2017	03:08:00	USER	0.00	13.33	11.00	Pre-loaded WFM top plug in plug container verified by customer rep.
Event	20	Pump Displacement	Pump Displacement	6/7/2017	03:13:34	USER	0.00	8.21	0.00	285.36 bbls fresh water with 10 gallon mmcr.

Event	21	Spacer Returns to Surface	Spacer Returns to Surface	6/7/2017	03:48:43	USER	3.10	8.36	2188.00	@281 bbls displacement 5 bbls to surface
Event	22	Bump Plug	Bump Plug	6/7/2017	03:51:00	USER	0.00	8.37	3107.00	@500 psi over final circulating pressure of 2300 psi. casing test @3000 psi for 15 min
Event	23	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/7/2017	03:55:00	USER	0.00	8.36	3221.00	JSA to discuss the hazards of rig-down
Event	24	Check Floats	Check Floats	6/7/2017	04:03:37	USER	0.00	8.36	1473.00	floats good 3 bbls back
Event	25	End Job	End Job	6/7/2017	04:13:19	COM4				Thanks, Aaron Smith and Crew
Event	26	Rig-Down Completed	Rig-Down Completed	6/7/2017	04:30:00	USER				With no incidents or injuries
Event	27	Depart Location Safety Meeting	Depart Location Safety Meeting	6/7/2017	04:45:00	USER				Journey managment meeting held prior to depature
Event	28	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	6/7/2017	05:00:00	USER				Journey called into dispatch

3.0 Attachments

3.1 Anadarko Babcock 35C-33HZ Production Job Chart

