

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3791140		Quote #: 0022382670		Sales Order #: 0904486014				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: James						
Well Name: NEWBY			Well #: 28N-33HZ		API/UWI #: 05-123-44567-00					
Field: WATTENBERG		City (SAP): LONGMONT		County/Parish: WELD		State: COLORADO				
Legal Description: SW SE-33-3N-68W-589FSL-1500FEL										
Contractor: NABORS DRLG				Rig/Platform Name/Num: NABORS X22						
Job BOM: 7522 7522										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: Bryan Kraft						
Job										
Formation Name										
Formation Depth (MD)		Top				Bottom				
Form Type						BHST				
Job depth MD		6111ft		Job Depth TVD		6111ft				
Water Depth				Wk Ht Above Floor		4ft				
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	805	0	805
Casing		7	6.276	26	LTC	J-55	0	6111	0	6111
Open Hole Section			8.5				805	6119	805	6119
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe						Top Plug	7	1	WF	
Float Shoe	7	1		6111		Bottom Plug	7	1	WF	
Float Collar	7	1		6069		SSR plug set				
Insert Float						Plug Container	7	1	HES	
Stage Tool						Centralizers				
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	Spacer	Tuned Spacer III	40	bbl	10.5	6.25	40.1	4	1445	
0.70 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)								
88.91 lbm/bbl		BARITE, BULK (100003681)								
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	Cement	ELASTICEM (TM) SYSTEM	400	sack	13.2	1.57	7.53	6	3012
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	Displacement	OBM	232	bbl	9.5			8	9744
Cement Left In Pipe		Amount	42 ft		Reason			Shoe Joint	
Mix Water:	pH 6.9	Mix Water Chloride:	< 300 ppm			Mix Water Temperature:	55 °F		
Cement Temperature:	N/A	Plug Displaced by:	9.5 lb/gal OBM			Disp. Temperature:	75 °F		
Plug Bumped?	Yes	Bump Pressure:	1762psi			Floats Held?	Yes		
Cement Returns:	N/A	Returns Density:	N/A			Returns Temperature:	N/A		
Comment: The plug bumped @ calculated displacement @ 1762 PSI, shutdown for 5 minutes @ 2267 PSI. The floats held and received 2 BBLS back to the truck. Spacer returned to surface @ 226 BBLS into displacement. Total of 6 BBL spacer 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)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Downhole Density (1) (ppg)	Comments
Event	1	Call Out	Call Out	12/10/2017	09:00:00	USER						CREW CALLED OUT AT 9:00 12/10/2017, REQUESTED ON LOCATION @ 14:00 12/10/2014. CREW PICKED UP CEMENT, CHEMICALS (30 GAL MUSOL, 30 GAL DUAL SPACER, 10 GAL D-AIR), 200 LBS OF SUGAR, PLUG CONTAINER AND MANIFOLD FROM FORT LUPTON, CO BULK 660: 11610427/10867096, BULK 660 BACK UP AIR: 11360541/11764052, PUMP ELITE: 11360879/11189145.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	12/10/2017	12:45:00	USER						DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Yard	Crew Leave Yard	12/10/2017	13:00:00	USER						STARTED JOURNEY MANAGEMENT.
Event	4	Arrive At Loc	Arrive At Loc	12/10/2017	14:00:00	USER						END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING- 9.625 36# @ 805', 7" CASING: 26# J-55 @ 6111.4', 41.77' SHOE TRACK, 8.5" OPEN HOLE, OBM DISPLACEMENT,
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	12/10/2017	14:10:00	USER						HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS

											ASSOCIATED WITH LOCATION, RIG UP AND WEATHER.
Event	6	Rig-Up Equipment	Rig-Up Equipment	12/10/2017	14:15:00	USER					CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON AND WATER HOSES TO PERFORM JOB.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	12/10/2017	19:30:00	USER	0.34	0.00	65.00	4.1	MEETING WITH HALLIBURTON AND RIG PERSONNEL. COMMUNICATED POTENTIAL SAFETY HAZARDS AND JOB DETAILS.
Event	8	Start Job	Start Job	12/10/2017	19:55:00	COM5	0.34	0.00	66.00	4.2	BEGIN RECORDING JOB DATA.
Event	9	Test Lines	Test Lines	12/10/2017	19:59:55	USER	0.34	0.00	66.00	4.2	8.53 PRESSURE TESTED IRON TO 5000 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 400 PSI, 5TH GEAR STALL @ 1720 PSI.
Event	10	Pump Spacer	Pump Tuned Spacer @ 10.5 pg	12/10/2017	20:09:34	USER	0.34	0.00	67.00	4.2	10.58 PUMP 40 BBLS OF TUNED SPACER @ 10.5 LB/GAL, ADDED 30 GAL MUSOL, 30 GAL DUAL SPACER, AND 10 GAL D-AIR, DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	11	Drop Bottom Plug	Drop Bottom Plug	12/10/2017	20:16:06	USER	0.40	0.00	77.00	4.2	10.51 PLUG LEFT CONTAINER, VERIFIED BY CO. MAN.
Event	12	Pump Cement	Pump Cement @ 13.2 ppg	12/10/2017	20:18:26	USER	8.41	2.90	184.00	4.6	13.06 PUMP 400 SKS OF ELASTICEM @ 13.2 LB/GAL, 1.57 YIELD, 7.53 GAL/SK, 112 BBLS, CALCULATED TOC @ 1226', DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	13	Shutdown	Shutdown	12/10/2017	20:42:46	USER	8.42	0.00	-22.00	0.0	13.03 SHUTDOWN TO DROP TOP

				7								PLUG.
Event	14	Drop Top Plug	Drop Top Plug	12/10/2017	20:43:54	USER	8.42	0.00	-22.00	0.0	13.01	PLUG LEFT CONTAINER, VERIFIED BY CO. MAN.
Event	15	Pump Displacement	Pump OBM Displacement	12/10/2017	20:44:56	USER	8.42	0.00	-22.00	0.0	12.77	BEGIN CALCULATED DISPLACEMENT OF 232 BBLs WITH OBM.
Event	16	Spacer Returns to Surface	Spacer Returns to Surface	12/10/2017	21:34:43	USER					9.47	TUNED SPACER TO SURFACE @ 226 BBLs INTO DISPLACEMENT, 6 BBLs TUNED SPACER TO SURFACE,
Event	17	Bump Plug	Bump Plug	12/10/2017	21:36:38	USER					9.46	PLUG BUMPED AT CALCULATED DISPLACEMENT. PRESSURED 505 PSI OVER FINAL CIRCULATING PRESSURE OF 1762 PSI.
Event	18	Shutdown	Shutdown	12/10/2017	21:36:55	USER					9.47	SHUTDOWN FOR 3 MINUTES @ 2267 PSI
Event	19	Check Floats	Check Floats	12/10/2017	21:39:09	USER					9.44	RELEASED PRESSURE, FLOATS HELD, 2 BBLs BACK
Event	20	Pressure Test	Casing Pressure Test	12/10/2017	21:42:11	USER					9.46	PRESSURE TEST CASING TO 3000 PSI FOR 15 MINUTES.
Event	21	End Job	End Job	12/10/2017	22:03:39	USER					9.38	STOP RECORDING JOB DATA.
Event	22	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	12/10/2017	23:15:00	USER						DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	23	Rig-Down Completed	Rig-Down Completed	12/11/2017	00:45:00	USER						ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.

Event	24	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	12/11/2017	00:55:00	USER	DISCUSSED ROUTES HAZARDS AND COMMUNICATION WITH CREW.
Event	25	Crew Leave Location	Crew Leave Location	12/11/2017	01:00:00	USER	THANK YOU FOR USING HALLIBURTON - BRYAN KRAFT AND CREW.

3.0 Attachments

3.1 Anadarko Newby 28N-33HZ Intermediate Job Chart

