

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 345242		<b>Ship To #:</b> 3684190		<b>Quote #:</b>		<b>Sales Order #:</b> 0903216534					
<b>Customer:</b> NOBLE ENERGY INC - EBUS				<b>Customer Rep:</b> Derek Dupee							
<b>Well Name:</b> WELLS RANCH			<b>Well #:</b> AA22-631		<b>API/UWI #:</b> 05-123-41986-00						
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> KERSEY		<b>County/Parish:</b> WELD		<b>State:</b> COLORADO					
<b>Legal Description:</b> 5-5N-62W-751FNL-519FWL											
<b>Contractor:</b> H & P DRLG				<b>Rig/Platform Name/Num:</b> H & P 321							
<b>Job BOM:</b> 392189											
<b>Well Type:</b> HORIZONTAL OIL											
<b>Sales Person:</b> HALAMERICA\HB61755				<b>Srv Supervisor:</b> Aaron Smith							
<b>Job</b>											
<b>Formation Name</b>											
<b>Formation Depth (MD)</b>		<b>Top</b>		<b>Bottom</b>							
<b>Form Type</b>				<b>BHST</b>		230 degF					
<b>Job depth MD</b>		6801ft		<b>Job Depth TVD</b>		6648					
<b>Water Depth</b>				<b>Wk Ht Above Floor</b>		6					
<b>Perforation Depth (MD)</b>		<b>From</b>		<b>To</b>							
<b>Well Data</b>											
<b>Description</b>	<b>New / Used</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>	
Casing	0	9.625	8.921	36			0	1881	0	1881	
Casing	0	5.5	4.778	20			0	11870	0	6648	
Open Hole Section			8.5				1881	11877	1881	6648	
<b>Tools and Accessories</b>											
<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	<b>Depth ft</b>		<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>		
<b>Guide Shoe</b>	5.5					<b>Top Plug</b>	5.5	1	pp		
<b>Float Shoe</b>	5.5	1		11870		<b>Bottom Plug</b>	5.5		HES		
<b>Float Collar</b>	5.5					<b>SSR plug set</b>	5.5		HES		
<b>Insert Float</b>	5.5					<b>Plug Container</b>	5.5	1	HES		
<b>Stage Tool</b>	5.5	1		6801		<b>Centralizers</b>	5.5		HES		
<b>Fluid Data</b>											
<b>Stage/Plug #: 1</b>											
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>			<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
1	12.5 lb/gal Tuned Spacer III	Tuned Spacer III			40	bbl	12.5	2.75			

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	12.5 lb/gal Tuned Spacer III	Tuned Spacer III	40	bbl	12.5	2.75			
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 B1	ELASTICEM (TM) SYSTEM	605	sack	13.6	1.88		5	8.57
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	Displacement	Displacement	150.36	bbl	9				
Cement Left In Pipe		Amount	42 ft		Reason			Shoe Joint	
Comment									

## 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)	PS Pump Press (psi)	Comments
Event	1	Rig-Down Completed	Rig-Down Completed	3/31/2016	00:10:00	USER				With no incidents.
Event	2	Depart Location Safety Meeting	Depart Location Safety Meeting	3/31/2016	00:15:00	USER				Journey management meeting held prior to departure.
Event	3	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	3/31/2016	00:20:00	USER				Journey called into dispatch.
Event	4	Call Out	Call Out	3/31/2016	08:00:00	USER				For on location @ 1300
Event	5	Depart Yard Safety Meeting	Depart Yard Safety Meeting	3/31/2016	11:30:00	USER				Journey management meeting held prior to departure.
Event	6	Depart from Service Center or Other Site	Depart from Service Center or Other Site	3/31/2016	11:45:00	USER				Journey called into dispatch
Event	7	Arrive at Location from Service Center	Arrive at Location from Service Center	3/31/2016	12:45:00	USER				With all equipment and materials, rig has about 6000' of casing left to run
Event	8	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/31/2016	17:15:00	USER				JSA to discuss the hazards of rig-up.
Event	9	Rig-Up Equipment	Rig-Up Equipment	3/31/2016	17:20:00	USER				
Event	10	Circulate Well	Circulate well	3/31/2016	17:25:00	USER				8bpm, 4 hrs, 10.2 #gal, 243 psi.
Event	11	Start Job	Start Job	3/31/2016	20:00:56	COM5				With water supplied from uprights, water tested good to mix cement, PH7, CL 32ppm, Temp 62.
Event	12	Test Lines	Test Lines	3/31/2016	21:44:22	COM5	0.00	8.53	57.00	@5000 PSI
Event	13	Pump Spacer 1	Pump Spacer 1	3/31/2016	21:59:34	COM5	1.40	8.47	10.00	40 Bbls Tuned Spacer III @ 12.5 ppg, 15 gal dual spacer b, 15 gal musol A, 30 gal de-air 3000.
Event	14	Pump Spacer 2	Pump Spacer 2	3/31/2016	22:07:46	COM5	6.50	12.56	190.00	40 Bbls tuned spacer @ 12.5 ppg, verified with pressurized scales.

Event	15	Pump Cement	Pump Cement	3/31/2016	22:15:37	COM5	0.00	13.51	1.00	605 sks (202.57 Bbls) ElastiCem, @ 13.6 ppg, verified with pressurized scales.
Event	16	Drop Top Plug	Drop Top Plug	3/31/2016	22:55:33	COM5	0.00	8.10	28.00	Pre-loaded HWE top plug in plug container, verified by customer rep. Had to take the cap off to verify plug sent.
Event	17	Pump Displacement	Pump Displacement	3/31/2016	22:55:39	COM5	0.00	8.09	27.00	150.36 Bbls fresh water. 10 Gallons MMCR in the first 20 bbls.
Event	18	Bump Plug	Bump Plug	3/31/2016	23:23:01	COM5	0.00	8.10	3688.00	2000 PSI over, final circulating pressure 1976 psi.
Event	19	Close Multiple Stage Cementer	Close Multiple Stage Cementer	3/31/2016	23:26:53	COM5	0.00	8.09	4038.00	Pressure up to 4000 psi.
Event	20	Pressure Test	Pressure Test	3/31/2016	23:35:43	USER	1.10	8.07	1447.00	Casing test @ 3000 psi for 15 min.
Event	21	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	3/31/2016	23:50:00	USER				JSA to discuss the hazards of rig-down
Event	22	Rig-Down Equipment	Rig-Down Equipment	3/31/2016	23:52:00	USER				
Event	23	End Job	End Job	3/31/2016	23:53:26	COM5				Thanks Aaron Smith and Crew