

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 345242		<b>Ship To #:</b> 9037123		<b>Quote #:</b>		<b>Sales Order #:</b> 0907305941					
<b>Customer:</b> NOBLE ENERGY INC-EBUS				<b>Customer Rep:</b> John Drahota							
<b>Well Name:</b> RAMPART			<b>Well #:</b> A33-760			<b>API/UWI #:</b> 05-123-50926-00					
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> GILL		<b>County/Parish:</b> WELD			<b>State:</b> COLORADO				
<b>Legal Description:</b> SW SW-21-6N-64W-652FSL-982FWL											
<b>Contractor:</b> H & P DRLG					<b>Rig/Platform Name/Num:</b> H & P 517						
<b>Job BOM:</b> 7523											
<b>Well Type:</b> HORIZONTAL OIL											
<b>Sales Person:</b> HALAMERICA\HX41066					<b>Srvc Supervisor:</b> Michael Loughran						
<b>Job</b>											
<b>Job depth MD</b>		16903.5 ft			<b>Job Depth TVD</b>		6809 ft				
<b>Well Data</b>											
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			0	1950	0	1950	
Casing		5.5	4.892	17			0	16903.5	0	6809	
Open Hole Section			8.5				1950	16915	1950	6809	
<b>Tools and Accessories</b>											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Float Shoe	5.5			16903.5		Top Plug	5.5	1	HES		
Float Collar	5.5			16857.6		Bottom Plug	5.5	2	HES		
						Centralizers	5.5	185		16858.6' to 2620.8'	

Fluid Data									
Stage #: 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 Prime Spacer	120	bbl	11.5	3.7		6	4278
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	Cap Cement	ElastiCem™ Cement	140	sack	13.2	1.6	7.63	8	1068
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	Lead Cement	ElastiCem™ Cement	727	sack	13.2	1.67	8.03	8	5838
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	Tail Cement	NeoCem™ Cement	1100	sack	13.2	2.04	9.79	8	10769
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	Displacement	Treated Fresh Water	391	bbl	8.33				16422
<b>Cement Left In Pipe</b>									
<b>Amount</b>		45.9 ft			<b>Reason</b>				Shoe Joint
<b>Mix Water:</b>		pH 7	<b>Mix Water Chloride:</b>		Less 200 ppm		<b>Mix Water Temperature:</b> 71 °F		
<b>Plug Bumped?</b>		Yes	<b>Plug Displaced by:</b>		8.33 lb/gal Fresh Water		<b>Disp. Temperature:</b> 71 °F		
<b>Cement Returns:</b>		25 bbl.	<b>Bump Pressure:</b>		3068 psi		<b>Floats Held?</b> Yes		
<b>Comment:</b>									

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Seq. No.	Activity	Date	Time	Downhole Density (ppg)	Cmb Pump Rate (gpm)	Pump A Pressure (psi)	Cmb Stg Total (bbl)	Comments
1	Call Out	8/7/2021	11:30:00					CREW CALLED OUT AUG 07, 2021 1130 HRS. REQUESTED ON LOCATION TIME 1800 HRS.
2	Pre-Convoy Safety Meeting	8/7/2021	15:00:00					CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
3	Crew Leave Yard	8/7/2021	15:30:00					CREW LEAVES YARD
4	Arrive At Loc	8/7/2021	16:45:00					MEET WITH DRAHOTA TO DISCUSS JOB; SURFACE CASING- 9.625" 36 LB/FT @ 1950', 5.5" CASING: 17 LB/FT P-110 16903.5', 8.5" HOLE, TD 16915', F/C 16857.6, TVD- 6809', 9.7 PPG MUD, KB 30', WATER 71 DEGREES, PH7, CHLORIDES LESS 200 PPM. DISPLACEMENT CHEMICALS ADDED BY MULTI CHEM INTO 400 BBL UPRIGHT. 185 CENTRALIZERS 16858.6' TO 2620.8'
5	Pre-Rig Up Safety Meeting	8/7/2021	22:00:00					HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP, AND WEATHER.
6	Rig-Up Equipment	8/7/2021	22:10:00					CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON AND WATER HOSES TO PERFORM JOB.
7	Pre-Job Safety Meeting	8/8/2021	00:01:00	7.96	0.0	17.81	24.83	SAFETY MEETING WITH HALLIBURTON, AND RIG PERSONNEL. CREW COMMUNICATED POTENTIAL SAFETY HAZARDS, AND JOB DETAILS.
8	Start Job	8/8/2021	00:09:12	7.96	0.0	16.44	0.00	
9	Start Job	8/8/2021	00:39:48	7.96	0.0	23.27	0.00	BEGIN RECORDING DATA
10	Drop Bottom Plug	8/8/2021	00:41:46	7.97	0.0	29.34	0.00	BOTTOM PLUG BY DRAHOTA
11	Test Lines	8/8/2021	00:44:30	8.33	0.0	108.91	2.95	TEST LINES 4700 PSI
12	Test Lines	8/8/2021	00:50:59	8.31	0.0	46.22	0.00	TEST IBOP 1900 PSI
13	Pump Spacer 1	8/8/2021	00:55:46	8.33	0.0	30.86	0.00	120 BBLS TUNED PRIME SPACER, 11.5 PPG, 3.7 YIELD, 23.55 GAL/SACK. D-AIR MIX ON FLY
14	Shutdown	8/8/2021	01:15:29	9.88	261.2	159.05	118.81	SHUTDOWN
15	Drop Bottom Plug	8/8/2021	01:17:55	10.35	0.0	60.27	0.00	2ND BOTTOM PLUG BY DRAHOTA
16	Pump Cement	8/8/2021	01:20:26	10.35	0.0	60.57	0.00	140 SACKS ELASTICEM CAP CEMENT. 39.89 BBLS., 13.2 PPG, 1.6 YIELD, 7.63 GAL/SACK, D-AIR MIX ON FLY

17	Pump Lead Cement	8/8/2021	01:27:40	13.11	240.8	506.49	0.10	727 SACKS ELASTICEM LEAD CEMENT. 216.23 BBLS. 13.2 PPG, 1.67 YIELD, 8.03 GAL/SACK, D-AIR MIX ON FLY
18	Pump Tail Cement	8/8/2021	01:58:33	13.81	295.9	554.28	0.11	1100 SACKS NEOCEM TAIL CEMENT. 399.7 BBLS. 13.2 PPG, 2.04 YIELD, 9.79 GAL/SACK. D-AIR MIX ON FLY. USED 50 GALLONS D-AIR TOTAL JOB
19	Shutdown	8/8/2021	01:58:52	13.96	11.6	508.45	2.09	SHUTDOWN TO CHECK/CONTROL DENSITY
20	Resume	8/8/2021	02:03:21	14.00	0.0	88.72	2.09	RESUME PUMPING TAIL CEMENT_DOWN APPROX 4 MINUTES
21	Shutdown	8/8/2021	02:19:02	13.76	0.0	103.01	124.04	SHUTDOWN TO CHECK/CONTROL DENSITY
22	Resume	8/8/2021	02:19:30	13.77	0.0	69.89	124.04	RESUME PUMPING TAIL CEMENT_DOWN APPROX 30 SECONDS
23	Shutdown	8/8/2021	02:52:05	12.97	0.0	114.63	375.48	SHUTDOWN
24	Clean Lines	8/8/2021	02:57:17	12.98	0.0	86.69	0.00	CLEAN PUMPS AND LINES
25	Drop Top Plug	8/8/2021	03:11:22	8.15	0.0	52.31	0.00	TOP PLUG BY DRAHOTA
26	Pump Displacement	8/8/2021	03:11:53	8.15	0.0	53.42	0.00	391 BBLS FRESHWATER DISPLACEMENT. FIRST 20 BBLS HAS 10 GALLONS MICRO MATRIX CEMENT RETARDER. REMAINING DISPLACEMENT TREATED WITH 15 GALLONS BELLACIDE AND 10 GALLONS MC MX 820-6
27	Bump Plug	8/8/2021	04:00:27	8.36	0.0	2843.12	386.98	FCP 2385 PSI@4BPM, BUMP PRESSURE TO 3068 PSI. 25 BBLS SPACER TO SURFACE. PRE-JOB CALCULATIONS TOTC=7133', TOLC=1850', TOCC=1018'.
28	Other	8/8/2021	04:07:50	8.17	0.0	58.48	0.00	CHECK FLOATS. FLOATS HOLD, 5.5 BBLS BACK TO PUMP TRUCK
29	End Job	8/8/2021	04:08:59	8.17	0.0	26.44	0.00	STOP RECORDING DATA
30	Pre-Rig Down Safety Meeting	8/8/2021	04:20:00					DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
31	Rig-Down Equipment	8/8/2021	04:30:00					RIG DOWN BULK AND MIXING EQUIPMENT
32	Rig-Down Completed	8/8/2021	06:00:00					ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.
33	Crew Leave Location	8/8/2021	06:30:00					THANK YOU FOR USING HALLIBURTON – MIKE LOUGHRAN AND CREW.

3.0 Attachments

3.1 Job Chart

