

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 345242		<b>Ship To #:</b> 9036803		<b>Quote #:</b>		<b>Sales Order #:</b> 0907314959				
<b>Customer:</b> NOBLE ENERGY INC-EBUS					<b>Customer Rep:</b> Jim Turner					
<b>Well Name:</b> RAMPART			<b>Well #:</b> A33-750			<b>API/UWI #:</b> 05-123-50927-00				
<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-1005FWL										
<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>Srv Supervisor:</b> Kyle Bath					
<b>Job</b>										
<b>Job depth MD</b>		17100 ft			<b>Job Depth TVD</b>		6887 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	1949		
Casing		5.5	4.892	17			0	17100	0	6887
Open Hole Section			8.5				1949	17110		6887
<b>Tools and Accessories</b>										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Float Shoe	5.5	1	HES	17100		Top Plug	5.5	1	HES	
Float Collar	5.5	1	HES	17054		Bottom Plug	5.5	2	HES	
						Centralizers	5.5	208	Summit	

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	12	3.13		5.64	4185
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	5.37	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	757	sack	13.2	1.67	8.03	7.89	6079
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	7.23	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	395.7	bbl	8.33				16617
Cement Left In Pipe		Amount	46 ft		Reason			Shoe Joint	
Mix Water:		pH 7	Mix Water Chloride:		0 ppm		Mix Water Temperature:		75 °F
Plug Bumped?		Yes	Plug Displaced by:		8.33 lb/gal Fresh Water		Disp. Temperature:		75 °F
Cement Returns:		0 bbl.	Bump Pressure:		2506 psi		Floats Held?		Yes
Comment: RECIEVED 65 BBLS SPACER TO SURFACE. BUMPED PLUG AT 2506 PSI TOOK TO 2973 PSI. FLOATS HELD TOOK 5.5 BBLS BACK.									

## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

Seq. No.	Activity	Date	Time	Comb Pump Rate (bbl/min)	DH Density (ppg)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
1	Call Out	8/13/2021	13:00:00					CREW CALLED OUT, REQUESTED ON LOCATION 19:00
2	Depart Yard Safety Meeting	8/13/2021	16:45:00					PRE CONVOY SAFETY MEETING WITH ALL HES EE
3	Crew Leave Yard	8/13/2021	17:00:00					CREW DEPART YARD FOR LOCATION
4	Arrive At Loc	8/13/2021	18:00:00					ARRIVE ON LOCATION, RECIEVED NUMBERS FROM CO REP, TD 17110, TP 17099.7, SJ 45.9, CSG 5.5 17#, PREV CSG 9 5/8 36# @ 1948.9, HOLE 8.5, MUD 11.2, TVD 6887, 208 CENTALIZERS, WATER TEST, TEMP 75, CHLORIDES 0, PH 7
5	Assessment Of Location Safety Meeting	8/13/2021	18:15:00					SAFETY MEETING WITH ALL HES EE TO ASSESS ALL HAZARDS
6	Safety Meeting - Pre Rig-Up	8/13/2021	18:30:00					PRE RIG UP SAFETY MEETING WITH ALL HES EE
7	Safety Meeting - Pre Job	8/13/2021	23:00:00	0.00	8.40	17.00	13.00	PRE JOB SAFETY MEETING WITH RIG CREW AND CO REP
8	Start Job	8/13/2021	23:19:00	0.00	8.45	14.00	0.00	START RECORDING DATA
9	Test Lines	8/13/2021	23:19:29	0.00	8.45	14.00	0.00	TEST LINES TO 4500 PSI, BLEED OFF TEST IBOP TO 2000 PSI
10	Drop Bottom Plug	8/13/2021	23:24:00	0.00	8.43	4528.00	5.10	LAUNCH BOTTOM PLUG
11	Pump Spacer 1	8/13/2021	23:29:17	0.00	8.40	39.00	0.00	MIX AND PUMP 120 BBLS TUNED PRIME SPACER 12 PPG 6.5 BPM 400 PSI

12	Shutdown	8/13/2021	23:49:55	0.00	12.93	65.00	113.70	SHUTDOWN
13	Drop Bottom Plug	8/13/2021	23:50:10	0.00	12.93	63.00	113.70	LAUNCH BOTTOM PLUG
14	Pump Cap Cement	8/13/2021	23:52:45	4.60	12.83	202.00	0.00	MIX AND PUMP 140 SKS 39.9 BBLS CAP CEMENT 13.2 PPG, 1.6 FT3/SK, 7.63 GAL/SK 5.5 BPM 330 PSI, CALCULATED TOCC 999
15	Check Weight	8/13/2021	23:54:01	5.30	13.32	306.00	6.60	VERIFY WEIGHT ON PRESSURIZED MUD SCALES
16	Pump Lead Cement	8/13/2021	23:59:47	5.50	13.28	333.00	37.90	MIX AND PUMP 757 SKS 225.2 BBLS LEAD CEMENT 13.2 PPG, 1.67 FT3/SK, 8.03 GAL/SK, 8.5 BPM 600 PSI, CALCULATED TOLC 1832
17	Check Weight	8/14/2021	00:01:38	6.90	13.20	435.00	12.00	VERIFY WEIGHT ON PRESSURIZED MUD SCALES
18	Pump Tail Cement	8/14/2021	00:30:35	7.00	13.18	473.00	0.10	MIX AND PUMP 1100 SKS 399.7 BBLS TAIL CEMENT 13.2 PPG, 2.04 FT3/SK, 9.79 GAL/SK, 8.7 BPM 1030 PSI, CALCULATED TOTC 7330
19	Check Weight	8/14/2021	00:33:45	8.70	13.26	970.00	26.80	VERIFY WEIGHT ON PRESSURIZED MUD SCALES
20	Check Weight	8/14/2021	00:51:05	6.80	13.27	847.00	165.70	VERIFY WEIGHT ON PRESSURIZED MUD SCALES
21	Shutdown	8/14/2021	01:29:45	0.00	12.97	153.00	426.20	SHUTDOWN
22	Drop Top Plug	8/14/2021	01:40:14	0.00	8.07	33.00	25.40	LAUNCH TOP PLUG
23	Pump Displacement	8/14/2021	01:40:17	0.00	8.07	34.00	0.00	PUMP 395.7 BBLS BIOCIDES DISPLACEMENT 8.5 BPM 2590 PSI, FIRST 20 BBLS WITH MMCR, RECEIVED 65 BBLS SPACER TO SURFACE
24	Bump Plug	8/14/2021	02:50:21	0.00	8.17	2871.00	399.20	BUMPED PLUG AT 2506 PSI TOOK TO 2973 PSI
25	Check Floats	8/14/2021	02:55:29	0.00	8.17	2960.00	399.20	FLOATS HELD TOOK 5.5 BBLS BACK
26	End Job	8/14/2021	02:58:25	0.00	8.09	15.00	0.00	STOP RECORDING DATA
27	Safety Meeting - Pre Rig-Down	8/14/2021	03:00:00					PRE RIG DOWN SAFETY MEETING WITH ALL HES EE

28	Depart Location Safety Meeting	8/14/2021	04:00:00	PRE DEPARTURE SAFETY MEETING WITH ALL HES EE
29	Crew Leave Location	8/14/2021	04:25:00	THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW

3.0 Attachments

3.1 Job Chart

