

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 345242		<b>Ship To #:</b> 9029983		<b>Quote #:</b>		<b>Sales Order #:</b> 0906965822				
<b>Customer:</b> NOBLE ENERGY INC-EBUS					<b>Customer Rep:</b> Noble Rep					
<b>Well Name:</b> REVEILLE			<b>Well #:</b> A34-768			<b>API/UWI #:</b> 05-123-50792-00				
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> GARDEN CITY		<b>County/Parish:</b> WELD			<b>State:</b> COLORADO			
<b>Legal Description:</b> SE SW-34-6N-64W-519FSL-1508FWL										
<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> Kyle Bath					
<b>Job</b>										
<b>Formation Name</b>										
<b>Formation Depth (MD)</b>		<b>Top</b>				<b>Bottom</b>				
<b>Form Type</b>				<b>BHCT</b>		220 degF				
<b>Job depth MD</b>		16999ft		<b>Job Depth TVD</b>		6745ft				
<b>Water Depth</b>				<b>Wk Ht Above Floor</b>						
<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	1946	0	1946
Casing	0	5.5	4.892	17			0	16999	0	6745
Open Hole Section			8.5				1946	17016	1946	6745
<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>	
Float Shoe	5.5	1	HES	16999		Top Plug	5.5	1	HES	
Float Collar	5.5	1	HES	16950		Bottom Plug	5.5	2	HES	
						Centralizers	5.5	203	Summit	

Fluid Data										
Stage #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Prime	TUNED PRIME SPACER	120	bbl	11.5	3.7			4284	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	ElastiCem	ELASTICEM (TM) SYSTEM	140	sack	13.2	1.6	7.63	8	1068	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
3	ElastiCem w/ SCBL	ELASTICEM (TM) SYSTEM	707	sack	13.2	1.67	8.03	8	5677	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
4	NeoCem NT1	NeoCem TM	1128	sack	13.2	2.04	9.79	8	11043	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
5	Displacement	Displacement	0	bbl	8.33					
Cement Left In Pipe		Amount	49 ft		Reason			Shoe Joint		
Mix Water:		pH 7	Mix Water Chloride:		0 ppm		Mix Water Temperature:		72 °F	
Cement Temperature:			Plug Displaced by:		8.33 lb/gal Treated Water		Disp. Temperature:			
Plug Bumped?		Yes	Bump Pressure:		2420 psi		Floats Held?		Yes/No	
Cement Returns:		0 bbl	Returns Density:				Returns Temperature:			
<b>Comment:</b> RECIEVED 50 BBLs TUNED PRIME SPACER TO SURFACE, CALCULATED TOC 989, CALCULATED TOLC 1822, , CALCULATED TOTC 6954.										

## 2.0 Real-Time Job Summary

## 2.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Recirc Density (ppg)	Comments
Event	1	Call Out	2/10/2021	22:30:00					CREW CALLED OUT, REQUESTED ON LOCATION 0430
Event	2	Depart Yard Safety Meeting	2/10/2021	23:45:00					DEPART LOCATION SAFETY MEETING WITH ALL HES EE
Event	3	Crew Leave Yard	2/11/2021	00:01:00					DEPART YARD
Event	4	Arrive At Loc	2/11/2021	01:00:00					ARRIVE ON LOCATION, RECIEVE NUMBERS FROM CO REP TD 17016, TP 16998.5, SJ 48.85, CSG 5.5 17#, PREV CSG 9 5/8 36# @ 1946, HOLE 8.5, MUD 9.6, TVD 6745, 203 CENTRALIZERS FROM 16950 TO 937, WATER TEST, TEMP 72, PH 7, CHLORIDES 0
Event	5	Assessment Of Location Safety Meeting	2/11/2021	01:30:00					HAZARD ASSESMENT SAFETY MEETING WITH ALL HES EE
Event	6	Safety Meeting - Pre Rig-Up	2/11/2021	06:30:00					PRE RIG UP SAFETY MEETING AND COMMENCE RIG UP
Event	7	Safety Meeting - Pre Job	2/11/2021	09:00:00	0.00	-23.00	0.00	0.02	PRE JOB SAFETY MEETING WITH RIG CREW, CO REP AND HES EE
Event	8	Start Job	2/11/2021	09:34:08	0.00	1.00	0.00	9.42	START RECORDING DATA, DOWNHOLE NOT READING CHART RECIRC DENSITY
Event	9	Drop Bottom Plug	2/11/2021	09:34:34	0.00	-1.00	0.00	11.09	LAUNCH BOTTOM PLUG
Event	10	Test Lines	2/11/2021	09:36:58	0.00	63.00	2.20	11.78	TEST LINES TO 4590 PSI

Event	11	Check Weight	2/11/2021	09:40:29	2.10	91.00	2.80	11.69	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	12	Test Lines	2/11/2021	09:41:57	0.00	142.00	4.50	11.79	TEST IBOP TO 2000 PSI
Event	13	Pump Spacer 1	2/11/2021	09:46:12	0.00	49.00	4.70	11.49	PUMP 120 BBLS TUNED PRIME SPACER 11.5 PPG 6.5 BPM 375 PSI
Event	14	Check Weight	2/11/2021	10:08:31	0.00	44.00	118.20	13.35	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	15	Drop Bottom Plug	2/11/2021	10:08:38	0.00	44.00	118.20	13.34	LAUNCH BOTTOM PLUG
Event	16	Pump Cap Cement	2/11/2021	10:10:29	0.00	44.00	0.00	13.03	MIX AND PUMP 140 SKS 39.9 BBLS CAP CEMENT 13.2 PPG, 1.6 FT3/SK, 7.63 GAL/SK 6 BPM 500 PSI, CALCULATED TOCC 989
Event	17	Pump Lead Cement	2/11/2021	10:19:55	6.30	590.00	49.20	13.30	MIX AND PUMP 707 SKS 210 BBLS LEAD CEMENT 13.2 PPG, 1.67 FT3/SK, 8.03 GAL/SK 8 BPM 800 PSI, CALCULATED TOLC 1822
Event	18	Check Weight	2/11/2021	10:21:57	6.30	569.00	12.70	13.21	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	19	Check Weight	2/11/2021	10:30:58	8.10	739.00	80.20	13.19	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	20	Pump Tail Cement	2/11/2021	10:47:09	8.60	750.00	0.10	13.17	MIX AND PUMP 1128 SKS 410 BBLS TAIL CEMENT 13.2 PPG, 2.04 FT3/SK, 9.79 GAL/SK, 8.5 BPM 1050 PSI, CALCULATED TOTC 6954
Event	21	Check Weight	2/11/2021	10:47:35	8.60	872.00	3.80	13.18	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	22	Check Weight	2/11/2021	10:59:48	8.50	1005.00	108.00	13.19	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	23	Check Weight	2/11/2021	11:19:34	8.50	987.00	276.50	13.18	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	24	Clean Lines	2/11/2021	11:42:24	0.00	52.00	0.00	8.61	WASH PUMPS AND LINES TO PIT
Event	25	Drop Top Plug	2/11/2021	11:56:57	0.00	33.00	0.00	8.52	LAUNCH TOP PLUG
Event	26	Pump Displacement	2/11/2021	11:58:20	0.00	31.00	0.00	8.52	PUMP 393 BBLS PRODUCED WATER DISPLACEMENT 10 BPM 2800 PSI, RECIEVED 50 BBLS TUNED PRIME SPACER TO SURFACE

Event	27	Other	2/11/2021	12:34:23	3.80	538.00	309.90	8.52	SHUTDOWN DUE TO LEAK ON STANDPIPE
Event	28	Bump Plug	2/11/2021	12:52:28	0.00	2814.00	399.30	8.52	BUMP PLUG AT 2420 PSI TOOK TO 2820 PSI
Event	29	Check Floats	2/11/2021	12:58:25	0.00	210.00	0.00	8.52	CHECK FLOATS, FLOATS HELD TOOK 4.5 BBLS BACK TO TRUCK
Event	30	End Job	2/11/2021	13:00:59	0.00	6.00	0.00	8.52	
Event	31	Safety Meeting - Pre Rig-Down	2/11/2021	13:05:00					PRE RIG DOWN SAFETY MEETING WITH ALL HES EE
Event	32	Depart Location Safety Meeting	2/11/2021	14:50:00					PRE DEPARTURE SAFETY MEETING WITH ALL HES EE
Event	33	Crew Leave Location	2/11/2021	15:20:00					THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW

3.0 Attachments

3.1 Job Chart

