

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 345242		<b>Ship To #:</b> 3925507		<b>Quote #:</b>		<b>Sales Order #:</b> 0907577950				
<b>Customer:</b> NOBLE ENERGY INC-EBUS						<b>Customer Rep:</b> Dave Nielsen				
<b>Well Name:</b> BOOTH				<b>Well #:</b> D11-725		<b>API/UWI #:</b> 05-123-48921-00				
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> KERSEY		<b>County/Parish:</b> WELD		<b>State:</b> COLORADO				
<b>Legal Description:</b> NW NE-2-3N-64W-292FNL-1715FEL										
<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>		17506ft		<b>Job Depth TVD</b>		6737ft				
<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		9.625	8.921	36			0	1942	0	1942
Casing		5.5	4.892	17			0	17506	0	6737
Open Hole Section			8.5				1942	17517	1942	6737
<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>Float Shoe</b>	5.5	1	HES	17506		<b>Top Plug</b>	5.5	1	HES	
<b>Float Collar</b>	5.5	1	HES	17462		<b>Bottom Plug</b>	5.5	2	HES	
						<b>Centralizers</b>	5.5	216	Summit	

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 Prime Cement Spacer	120	bbl	11.5	3.92	24.67	6	4237
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	Lead Cement	ElastiCem™	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™	724	sack	13.2	1.67	8.03	8	5814
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™	1173	sack	13.2	2.04	9.79	8	11484
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	405	bbl	8.33				16983
Cement Left In Pipe		Amount	44 ft		Reason			Shoe Joint	
Mix Water:		pH 6	Mix Water Chloride:		Less 200 ppm		Mix Water Temperature:		67 °F
Plug Bumped?		Yes	Plug Displaced by:		8.33 lb/gal Treated Water		Disp. Temperature:		67 °F
Cement Returns:		0 bbl.	Bump Pressure:		2427 psi		Floats Held?		Yes
Comment 216 centralizers from 17463'-996'									

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Seq. No.	Activity	Date	Time	Dwnhole Density (ppg)	Cmb Pump Rate (bbl/min)	Pump A Pressure (psi)	Cmb Stg Total (bbl)	Comments
1	Call Out	12/24/2021	00:01:00					CREW CALLED OUT 0001 HRS 12/24/2021. REQUESTED ON LOCATION AT 0600 HRS. 12/24/2021
2	Crew Leave Yard	12/24/2021	04:45:00					CREW LEAVES YARD
3	Arrive At Loc	12/24/2021	05:50:00					MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING- 9.625" 36 LB/FT 1942', 5.5" CASING: 17 LB/FT TOTAL 17506, 8.5" HOLE, TD 17517', F/C 17462.3', TVD- 6737'. WATER TEST 67 DEGREES, PH 6, CHLORIDES LESS THAN 200 PPM. 216 CENTRALIZERS FROM 17463'-996'
4	Pre-Rig Up Safety Meeting	12/24/2021	09:25:00					HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP, AND WEATHER.
5	Rig-Up Equipment	12/24/2021	09:30:00					CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON AND WATER HOSES TO PERFORM JOB.
6	Pre-Job Safety Meeting	12/24/2021	11:15:00	-1.02	0.00	7.35	1.63	SAFETY MEETING WITH HALLIBURTON, AND RIG PERSONNEL. CREW COMMUNICATED POTENTIAL SAFETY HAZARDS, AND JOB DETAILS.
7	Start Job	12/24/2021	11:29:09	8.34	0.00	5.53	0.00	
8	Start Job	12/24/2021	11:39:16	8.34	0.00	7.34	0.00	BEGIN RECORDING DATA. RIG CIRCULATES 10 BPM/870 PSI. RIG CIRCS 714 BBLS.
9	Drop Bottom Plug	12/24/2021	11:39:37	8.21	1.65	9.03	0.04	BOTTOM PLUG BY DAVE
10	Test Lines	12/24/2021	11:41:39	8.58	0.00	125.70	3.38	TEST HES LINES 5000 PSI. TEST RIG VALVE 1800 PSI
11	Pump Spacer 1	12/24/2021	11:49:55	8.51	0.00	48.13	0.00	120 BBLS TUNED PRIME SPACER. 11.5 PPG, 3.92 YIELD, 24.67 GAL/SACK. D-AIR ON FLY. RIG WAS NOT SEEING LOSSES AND DECLINED WELL LIFE
12	Shutdown	12/24/2021	12:09:11	11.43	0.44	197.03	116.06	SHUTDOWN
13	Drop Bottom Plug	12/24/2021	12:10:23	11.37	0.00	62.93	0.00	BOTTOM PLUG BY DAVE
14	Pump Cap Cement	12/24/2021	12:18:39	11.30	0.00	57.84	0.00	140 SACKS SBM CEM ELASTICEM CAP CEMENT. 39.89 BBLS. 13.2 PPG, 1.6 YIELD, 7.63 GAL/SACK. ESTIMATED TOCC=994'
15	Pump Lead Cement	12/24/2021	12:24:47	13.18	8.35	706.83	0.14	724 SACKS SBM CEM ELASTICEM LEAD CEMENT. 215.34 BBLS. 13.2 PPG, 1.67 YIELD, 8.03 GAL/SACK. ESTIMATED TOLC=1827'

16	Pump Tail Cement	12/24/2021	12:53:27	13.06	8.39	741.50	0.07	1173 SACKS NEO CEM TAIL CEMENT. 426.18 BBLS. 13.2 PPG, 2.04 YIELD, 9.79 GAL/SACK. ESTIMATED TOTC=7085'
17	Shutdown	12/24/2021	13:56:43	12.90	0.00	130.15	489.06	SHUTDOWN
18	Clean Lines	12/24/2021	13:58:56	12.92	0.00	71.58	0.00	CLEAN PUMPS AND LINES
19	Shutdown	12/24/2021	14:04:38	7.48	0.24	105.98	17.46	SHUTDOWN
20	Drop Top Plug	12/24/2021	14:05:27	7.47	0.00	54.39	17.46	TOP PLUG BY DAVE
21	Pump Displacement	12/24/2021	14:06:10	7.47	0.00	50.87	0.00	405 BBLS FRESH WATER DISPLACEMENT. 10 GALLONS MMCR IN FIRST 20 BBLS. 10 GALLONS MC-MX 820, 15 GALLONS BELLACIDE. USED 60 GALLONS D-AIR FOR ENTIRE JOB. SPACER OVERBOARD AT 300 BBLS INTO DISPLACE. GOOD SPACER AT HIGHWALL AT 333 BBLS INTO DISPLACEMENT. APPROX 72 BBLS SPACER TO SURFACE
22	Bump Plug	12/24/2021	15:00:57	8.50	0.00	2883.58	401.20	FCP 2427 PSI/4 BPM. BUMP PRESSURE 3037 PSI.
23	Check Floats	12/24/2021	15:06:37	8.29	0.00	738.65	401.20	FLOATS HOLD. 5 BBLS BACK
24	End Job	12/24/2021	15:08:35	8.28	0.00	32.17	0.00	STOP RECORDING DATA
25	Pre-Rig Down Safety Meeting	12/24/2021	15:15:00					DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
26	Rig-Down Equipment	12/24/2021	15:20:00					RIG DOWN BULK AND MIXING EQUIPMENT
27	Rig-Down Completed	12/24/2021	16:00:00					ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.
28	Crew Leave Location	12/24/2021	16:30:00					THANK YOU FOR USING HALLIBURTON – MIKE LOUGHRAN AND CREW.

3.0 Attachments

3.1 Job Chart

