

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 345242		<b>Ship To #:</b> 9030006		<b>Quote #:</b>		<b>Sales Order #:</b> 0906899987				
<b>Customer:</b> NOBLE ENERGY INC-EBUS					<b>Customer Rep:</b> Jim Turner					
<b>Well Name:</b> REVEILLE			<b>Well #:</b> A34-735			<b>API/UWI #:</b> 05-123-50795-00				
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> GILL		<b>County/Parish:</b> WELD			<b>State:</b> COLORADO			
<b>Legal Description:</b> SW SW-35-6N-64W-260FSL-293FWL										
<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> Vaughn Oteri					
<b>Job</b>										
<b>Job depth MD</b>		17418ft			<b>Job Depth TVD</b>		6718ft			
<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	0	9.625	8.921	36			0	1934	0	1934
Casing	0	5.5	4.892	17			0	17401	0	6718
Open Hole Section			8.5				1934	17418	1934	6718
<b>Tools and Accessories</b>										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Float Shoe	5.5			17401		Top Plug	5.5	1	HES	
Float Collar	5.5			17352		Bottom Plug	5.5	2	HES	

Fluid Data										
<b>Stage #: 1</b>										
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	Tuned Prime	TUNED PRIME SPACER	120	bbl	11.5	3.7		6.0	4254	
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	ElastiCem	ELASTICEM™ SYSTEM	140	sack	13.2	1.6	7.63	8.5	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	ElastiCem w/ SCBL	ELASTICEM™ SYSTEM	757	sack	13.2	1.67	8.03	8.5	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	NeoCem NT1	NEOCEM™	1133	sack	13.2	2.04	9.79	8.5	11092	
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 Water Displacement	402	bbl	8.33			10		
<b>Cement Left In Pipe</b>		<b>Amount</b>	49 ft		<b>Reason</b>			Shoe Joint		
<b>Comment:</b> 60bbls of spacer back to surface. Estimated HOT-10089.21 TOT-7311.79 TOL-1814.17 TOC-981.40.										

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	1/5/2021	07:30:00				Call out from ARC hub.
Event	2	Pre-Convoy Safety Meeting	1/5/2021	11:30:00				Held pre-Convoy meeting with all HES drivers to discuss driving directions and hazards.
Event	3	Depart from Service Center or Other Site	1/5/2021	12:00:00				Depart from Ft. Lupton co HES yard.
Event	4	Arrive At Loc	1/5/2021	13:00:00				Arrived on location met with company rep to discuss job process and concerns.
Event	5	Start Job	1/5/2021	15:31:50	1.00	8.41	0.00	Held pre-job safety meeting with all hands on location to discuss job process and hazards.
Event	6	Test Lines	1/5/2021	16:10:42	209.00	8.59	0.00	Pressure tested pumps and lines with fresh water, 4863psi. Pressure held good and no signs of leaks.
Event	7	Test Lines	1/5/2021	16:14:50	99.00	8.55	0.00	Pressure tested IBOP to 2058psi with fresh water. Found no leaks and pressure held good.
Event	8	Drop Bottom Plug	1/5/2021	16:17:10	87.00	8.54	0.00	Released bottom plug witnessed by company rep.
Event	9	Pump Spacer 1	1/5/2021	16:17:14	86.00	8.54	0.00	Mixed 120bbls of 11.5ppg Y-3.7 g/sk-23.55 Tuned Prime spacer at 6.0bpm 530psi
Event	10	Drop Bottom Plug	1/5/2021	16:40:17	59.00	11.23	0.00	Released 2nd bottom plug witnessed by company rep.
Event	11	Pump Cement	1/5/2021	16:50:57	61.00	10.92	0.80	Mixed and pumped 140sks or 40bbls of 13.2ppg Y-1.6 g/sk7.63 ElastiCem at 8.5bpm 650psi
Event	12	Check Weight	1/5/2021	16:52:19	239.00	12.76	3.00	Confirmed weight of 13.2ppg on scales
Event	13	Pump Lead Cement	1/5/2021	16:58:40	793.00	13.09	9.50	Mixed and pumped 757sks or 225bbls of 13.2ppg Y-1.6 G/sk-8.03 ElastiCem at 8.5bpm 740psi
Event	14	Check Weight	1/5/2021	17:00:36	889.00	13.43	9.40	Confirmed weight of 13.2ppg on scales
Event	15	Check Weight	1/5/2021	17:14:27	774.00	13.17	9.50	Confirmed weight of 13.2ppg on scales
Event	16	Pump Tail Cement	1/5/2021	17:27:04	704.00	13.16	8.50	Mixed and pumped 1133sks of 411bbls of 13.2ppg Y-2.04 G/sk-9.79 NeoCem at 8.5bpm 735psi
Event	17	Check Weight	1/5/2021	17:28:35	883.00	13.02	8.50	Confirmed weight of 13.2ppg on scales
Event	18	Check Weight	1/5/2021	17:54:48	966.00	13.19	8.40	

Event	19	Shutdown	1/5/2021	18:21:50	72.00	12.83	0.00	
Event	20	Clean Lines	1/5/2021	18:23:16	65.00	12.82	0.00	Wash pumps and lines with fresh water.
Event	21	Drop Top Plug	1/5/2021	18:33:27	44.00	8.32	0.00	Released top plug witnessed by company rep.
Event	22	Pump Displacement	1/5/2021	18:33:46	43.00	8.32	0.00	Pumped 402bbls of treated water to displace cement.
Event	23	Bump Plug	1/5/2021	19:24:06	2990.00	8.46	0.00	Bumped plug 500psi over final pump pressure. 2480/3055psi
Event	24	Other	1/5/2021	19:30:23	1853.00	8.39	0.00	Released pressure back to pump truck to check floats. 5.5 bbls back floats held good.
Event	25	End Job	1/5/2021	19:32:38	26.00	8.33	0.00	60bbls of spacer back to surface. estimated HOT-10089.21 TOT-7311.79 TOL-1814.17 TOC-981.40

3.0 Attachments

3.1 Job Chart

