

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 9029949		Quote #:		Sales Order #: 0906903666				
Customer: NOBLE ENERGY INC-EBUS				Customer Rep: Charles Culver						
Well Name: REVEILLE			Well #: A34-725			API/UWI #: 05-123-50797-00				
Field: WATTENBERG		City (SAP): GILL		County/Parish: WELD			State: COLORADO			
Legal Description: SW SW-35-6N-64W-260FSL-315FWL										
Contractor: H & P DRLG				Rig/Platform Name/Num: H & P 517						
Job BOM: 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Vaughn Oteri						
Job										
Job depth MD		17108ft		Job Depth TVD		6772ft				
Well Data										
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	17108	0	6772
Open Hole Section			8.5				1934	17121	1934	6772
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Float Shoe	5.5	1	HES	17108		Top Plug	5.5	1	HES	
Float Collar	5.5	1	HES	17061		Bottom Plug	5.5	2	HES	

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	Tuned Prime	TUNED PRIME SPACER	120	bbl	11.5	3.7		6	
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	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	730	sack	13.2	1.67	8.03	8	5862
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	NEOCER™ SYSTEM	1119	sack	13.2	2.04	9.79	8	10955
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	395	bbl	8.33			10	
Cement Left In Pipe		Amount	47ft		Reason			Shoe Joint	
Comment: 45bbl of spacer back to surface, Estimated HOT-9964.69ft TOT-7143.31FT TOL-1829.62 HOC-832.77 TOC-996.85									

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)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	1/9/2021	12:30:00					Call out from ARC hub.
Event	2	Pre-Convoy Safety Meeting	1/9/2021	16:30:00					Held pre-Convoy meeting with all HES drivers to discuss driving directions and hazards.
Event	3	Depart from Service Center or Other Site	1/9/2021	17:00:00					Depart from Ft. Lupton co HES yard.
Event	4	Arrive At Loc	1/9/2021	18:00:00					Arrived on location met with company rep to discuss job process and concerns.
Event	5	Start Job	1/9/2021	23:23:30	-6.00	8.52	0.00	12.10	Held pre-job safety meeting with all hands on location to discuss job process and hazards.
Event	6	Test Lines	1/9/2021	23:26:49	123.00	8.59	0.00	1.40	Pressure tested pumps and lines with fresh water to 4840, pressure held good and no leaks.
Event	7	Test Lines	1/9/2021	23:31:34	291.00	8.59	1.20	2.90	Pressure tested IBOP to 2191psi, pressure held good no leaks.
Event	8	Drop Bottom Plug	1/9/2021	23:33:00	122.00	8.52	0.00	3.00	Released bottom plug witnessed by company rep.
Event	9	Pump Spacer 1	1/9/2021	23:33:57	76.00	8.53	1.60	0.10	Mixed and pumped 120bbl of 11.5ppg Y-3.7 g/sk-23.55 Tuned prime spacer at 6.0bpm 302psi
Event	10	Check Weight	1/9/2021	23:44:53	289.00	11.44	6.20	63.60	Confirmed weight of 11.5ppg on scales.
Event	11	Shutdown	1/9/2021	23:53:56	123.00	11.74	0.00	118.60	Shut down to mix and scales Cap cement.
Event	12	Drop Bottom Plug	1/9/2021	23:54:53	59.00	11.63	0.00	0.00	Released bottom plug witnessed by company rep.
Event	13	Check Weight	1/9/2021	23:56:50	52.00	11.61	0.00	0.00	Confirmed weight of 13.2ppg on scales.
Event	14	Pump Cap Cement	1/9/2021	23:59:14	51.00	11.59	0.00	0.00	Mixed and pumped 140sk or 39bbl of 13.2ppg Y-1.6 G/sk-7.63 ElastiCem at 8.0bpm 700psi
Event	15	Pump Lead Cement	1/10/2021	00:04:29	839.00	13.22	8.50	0.10	Mixed and pumped 730sk or 217bbl of 13.2ppg y-1.67 G/sk-8.03 ElastiCem at 8.0bpm 800psi

Event	16	Check Weight	1/10/2021	00:11:54	746.00	13.35	7.20	54.30	Confirmed weight of 13.2ppg on scales
Event	17	Pump Tail Cement	1/10/2021	00:32:55	692.00	13.06	8.20	0.10	Mixed and pumped 1119sks or 406bbl of 13.2ppg Y2.04 G/sk-9.79 of NeoCem 8.0bpm 786psi
Event	18	Check Weight	1/10/2021	00:34:14	921.00	13.20	8.20	10.90	Confirmed weight of 13.2ppg on scales.
Event	19	Check Weight	1/10/2021	01:01:27	982.00	13.10	8.20	235.10	Confirmed weight of 13.2ppg on scales
Event	20	Check Weight	1/10/2021	01:03:32	1094.00	13.15	8.20	252.30	Confirmed weight of 13.2ppg on scales
Event	21	Check Weight	1/10/2021	01:08:28	1038.00	13.10	8.20	292.90	Confirmed weight of 13.2ppg on scales
Event	22	Shutdown	1/10/2021	01:25:25	158.00	13.08	0.00	422.80	Shut down rig up wash up.
Event	23	Clean Lines	1/10/2021	01:26:51	69.00	13.08	0.00	0.00	Washed pumps and lines with fresh water.
Event	24	Drop Top Plug	1/10/2021	01:39:30	42.00	8.08	0.00	0.00	Released plug witnessed by company rep
Event	25	Pump Displacement	1/10/2021	01:39:37	41.00	8.08	0.00	0.00	Pumped 395bbl of treated water to displace cement.
Event	26	Bump Plug	1/10/2021	02:29:43					Bump plug 500psi over final pump pressure, 2500/3151psi
Event	27	Other	1/10/2021	02:34:45	3117.00	8.15	0.00	0.00	Released pressure back to pump truck to check floats, Floats held good 5.5bbl back
Event	28	End Job	1/10/2021	02:38:30	16.00	8.08	0.00	0.00	45bbl of spacer back to surface, Estimated HOT-9964.69ft TOT-7143.31FT TOL-1829.62 HOC-832.77 TOC-996.85

3.0 Attachments

3.1 Job Chart

