

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 9037123		Quote #:		Sales Order #: 0907305941				
Customer: NOBLE ENERGY INC-EBUS						Customer Rep: John Drahota				
Well Name: RAMPART				Well #: A33-760		API/UWI #: 05-123-50926-00				
Field: WATTENBERG		City (SAP): GILL		County/Parish: WELD		State: COLORADO				
Legal Description: SW SW-21-6N-64W-652FSL-982FWL										
Contractor: H & P DRLG				Rig/Platform Name/Num: H & P 517						
Job BOM: 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: Michael Loughran						
Job										
Job depth MD		16903.5 ft		Job Depth TVD		6809 ft				
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		9.625	8.921	36			0	1950	0	1950
Casing		5.5	4.892	17			0	16903.5	0	6809
Open Hole Section			8.5				1950	16915	1950	6809
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Float Shoe	5.5			16903.5		Top Plug	5.5	1	HES	
Float Collar	5.5			16857.6		Bottom Plug	5.5	2	HES	
						Centralizers	5.5	185	16858.6' to 2620.8'	

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	11.5	3.7		6	4278
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	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™ Cement	727	sack	13.2	1.67	8.03	8	5838
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	8	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	391	bbl	8.33				16422
Cement Left In Pipe		Amount	45.9 ft		Reason			Shoe Joint	
Mix Water:		pH 7	Mix Water Chloride:		Less 200 ppm		Mix Water Temperature:		71 °F
Plug Bumped?		Yes	Plug Displaced by:		8.33 lb/gal Fresh Water		Disp. Temperature:		71 °F
Cement Returns:		25 bbl.	Bump Pressure:		3068 psi		Floats Held?		Yes
Comment:									

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq. No.	Activity	Date	Time	Downhole Density (ppg)	Cmb Pump Rate (gpm)	Pump A Pressure (psi)	Cmb Stg Total (bbl)	Comments
1	Call Out	8/7/2021	11:30:00					CREW CALLED OUT AUG 07, 2021 1130 HRS. REQUESTED ON LOCATION TIME 1800 HRS.
2	Pre-Convoy Safety Meeting	8/7/2021	15:00:00					CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
3	Crew Leave Yard	8/7/2021	15:30:00					CREW LEAVES YARD
4	Arrive At Loc	8/7/2021	16:45:00					MEET WITH DRAHOTA TO DISCUSS JOB; SURFACE CASING- 9.625" 36 LB/FT @ 1950', 5.5" CASING: 17 LB/FT P-110 16903.5', 8.5" HOLE, TD 16915', F/C 16857.6, TVD- 6809', 9.7 PPG MUD, KB 30', WATER 71 DEGREES, PH7, CHLORIDES LESS 200 PPM. DISPLACEMENT CHEMICALS ADDED BY MULTI CHEM INTO 400 BBL UPRIGHT. 185 CENTRALIZERS 16858.6' TO 2620.8'
5	Pre-Rig Up Safety Meeting	8/7/2021	22:00:00					HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP, AND WEATHER.
6	Rig-Up Equipment	8/7/2021	22:10:00					CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON AND WATER HOSES TO PERFORM JOB.
7	Pre-Job Safety Meeting	8/8/2021	00:01:00	7.96	0.0	17.81	24.83	SAFETY MEETING WITH HALLIBURTON, AND RIG PERSONNEL. CREW COMMUNICATED POTENTIAL SAFETY HAZARDS, AND JOB DETAILS.
8	Start Job	8/8/2021	00:09:12	7.96	0.0	16.44	0.00	
9	Start Job	8/8/2021	00:39:48	7.96	0.0	23.27	0.00	BEGIN RECORDING DATA
10	Drop Bottom Plug	8/8/2021	00:41:46	7.97	0.0	29.34	0.00	BOTTOM PLUG BY DRAHOTA
11	Test Lines	8/8/2021	00:44:30	8.33	0.0	108.91	2.95	TEST LINES 4700 PSI
12	Test Lines	8/8/2021	00:50:59	8.31	0.0	46.22	0.00	TEST IBOP 1900 PSI
13	Pump Spacer 1	8/8/2021	00:55:46	8.33	0.0	30.86	0.00	120 BBLS TUNED PRIME SPACER, 11.5 PPG, 3.7 YIELD, 23.55 GAL/SACK. D-AIR MIX ON FLY
14	Shutdown	8/8/2021	01:15:29	9.88	261.2	159.05	118.81	SHUTDOWN
15	Drop Bottom Plug	8/8/2021	01:17:55	10.35	0.0	60.27	0.00	2ND BOTTOM PLUG BY DRAHOTA
16	Pump Cement	8/8/2021	01:20:26	10.35	0.0	60.57	0.00	140 SACKS ELASTICEM CAP CEMENT. 39.89 BBLS., 13.2 PPG, 1.6 YIELD, 7.63 GAL/SACK, D-AIR MIX ON FLY

17	Pump Lead Cement	8/8/2021	01:27:40	13.11	240.8	506.49	0.10	727 SACKS ELASTICEM LEAD CEMENT. 216.23 BBLS. 13.2 PPG, 1.67 YIELD, 8.03 GAL/SACK, D-AIR MIX ON FLY
18	Pump Tail Cement	8/8/2021	01:58:33	13.81	295.9	554.28	0.11	1100 SACKS NEOCEM TAIL CEMENT. 399.7 BBLS. 13.2 PPG, 2.04 YIELD, 9.79 GAL/SACK. D-AIR MIX ON FLY. USED 50 GALLONS D-AIR TOTAL JOB
19	Shutdown	8/8/2021	01:58:52	13.96	11.6	508.45	2.09	SHUTDOWN TO CHECK/CONTROL DENSITY
20	Resume	8/8/2021	02:03:21	14.00	0.0	88.72	2.09	RESUME PUMPING TAIL CEMENT_DOWN APPROX 4 MINUTES
21	Shutdown	8/8/2021	02:19:02	13.76	0.0	103.01	124.04	SHUTDOWN TO CHECK/CONTROL DENSITY
22	Resume	8/8/2021	02:19:30	13.77	0.0	69.89	124.04	RESUME PUMPING TAIL CEMENT_DOWN APPROX 30 SECONDS
23	Shutdown	8/8/2021	02:52:05	12.97	0.0	114.63	375.48	SHUTDOWN
24	Clean Lines	8/8/2021	02:57:17	12.98	0.0	86.69	0.00	CLEAN PUMPS AND LINES
25	Drop Top Plug	8/8/2021	03:11:22	8.15	0.0	52.31	0.00	TOP PLUG BY DRAHOTA
26	Pump Displacement	8/8/2021	03:11:53	8.15	0.0	53.42	0.00	391 BBLS FRESHWATER DISPLACEMENT. FIRST 20 BBLS HAS 10 GALLONS MICRO MATRIX CEMENT RETARDER. REMAINING DISPLACEMENT TREATED WITH 15 GALLONS BELLACIDE AND 10 GALLONS MC MX 820-6
27	Bump Plug	8/8/2021	04:00:27	8.36	0.0	2843.12	386.98	FCP 2385 PSI@4BPM, BUMP PRESSURE TO 3068 PSI. 25 BBLS SPACER TO SURFACE. PRE-JOB CALCULATIONS TOTC=7133', TOLC=1850', TOCC=1018'.
28	Other	8/8/2021	04:07:50	8.17	0.0	58.48	0.00	CHECK FLOATS. FLOATS HOLD, 5.5 BBLS BACK TO PUMP TRUCK
29	End Job	8/8/2021	04:08:59	8.17	0.0	26.44	0.00	STOP RECORDING DATA
30	Pre-Rig Down Safety Meeting	8/8/2021	04:20:00					DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
31	Rig-Down Equipment	8/8/2021	04:30:00					RIG DOWN BULK AND MIXING EQUIPMENT
32	Rig-Down Completed	8/8/2021	06:00:00					ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.
33	Crew Leave Location	8/8/2021	06:30:00					THANK YOU FOR USING HALLIBURTON – MIKE LOUGHRAN AND CREW.

3.0 Attachments

3.1 Job Chart

