

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 9036812		Quote #:		Sales Order #: 0907340989				
Customer: NOBLE ENERGY INC-EBUS						Customer Rep: Charles Collver				
Well Name: RAMPART				Well #: A33-730		API/UWI #: 05-123-50924-00				
Field: WATTENBERG		City (SAP): GILL		County/Parish: WELD			State: COLORADO			
Legal Description: SW SW-21-6N-64W-651FSL-1050FWL										
Contractor: H & P DRLG					Rig/Platform Name/Num: H & P 517					
Job BOM: 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX41066					Srv Supervisor: Michael Loughran					
Job										
Job depth MD		17,704'			Job Depth TVD		6,871'			
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	1946.8	0	1946.8
Casing		5.5	4.892	17			0	17692.6	0	6871
Open Hole Section			8.5				1946.8	17704	1946.8	6871
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Float Shoe	5.5	1	HES	17692.6		Top Plug	5.5	1	HES	
Float Collar	5.5	1	HES	17646.7		Bottom Plug	5.5	2	HES	
						Centralizers	5.5	215	Summit	

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	12.5	2.72		5	4092
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™	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™	835	sack	13.2	1.67	8.03	8	6705
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™	1103	sack	13.2	2.04	9.79	8	10798
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	Displacement	409	bbl	8.33				17178
Cement Left In Pipe		Amount	46 ft		Reason			Shoe Joint	
Mix Water:	pH 7	Mix Water Chloride:	<200 ppm		Mix Water Temperature:			73 °F	
Plug Bumped?	Yes	Plug Displaced by:	8.33 lb/gal Treated Water		Disp. Temperature:			73 °F	
Cement Returns:	0 bbl.	Bump Pressure:	2928 psi		Floats Held?			Yes	
Comment: 47 bbl. spacer to surface.									

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq. No.	Activity	Date	Time	DH Density (ppg)	Comb Pump Rate (gpm)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
1	Call Out	8/25/2021	04:15:00					CREW CALLED OUT 07032020 AT 0415 hrs., REQUESTED ON LOCATION 1015 hrs.
2	Pre-Convoy Safety Meeting	8/25/2021	07:30:00					CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
3	Crew Leave Yard	8/25/2021	08:00:00					Crew leaves yard
4	Arrive At Loc	8/25/2021	09:30:00					MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING- 9.625" 36 LB/FT @ 1946.8', 5.5" CASING: 17 LB/FT TOTAL 17692.6', 8.5" HOLE, TD 17704', 45.9' SHOE TRAC, F/C 17646.7', TVD- 6,871', 215 CENTRALIZERS. WATER TEST-TEMP 73 DEGREES, PH 7, CHLORIDES LESS 200 PPM,
5	Pre-Rig Up Safety Meeting	8/25/2021	10:00:00					HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP, AND WEATHER.
6	Rig-Up Equipment	8/25/2021	10:30:00					CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON AND WATER HOSES TO PERFORM JOB.
7	Pre-Job Safety Meeting	8/25/2021	12:35:00	8.39	0.0	0.00	13.10	SAFETY MEETING WITH HALLIBURTON, AND RIG PERSONNEL. CREW COMMUNICATED POTENTIAL SAFETY HAZARDS, AND JOB DETAILS.
8	Start Job	8/25/2021	12:43:59	8.39	0.0	2.00	0.00	BEGIN RECORDING DATA. RIG CIRCULATED 10 BPM AT 1000 PSI
9	Drop Bottom Plug	8/25/2021	12:53:48	8.39	0.0	1.00	0.00	BOTTOM PLUG BY CHARLES
10	Test Lines	8/25/2021	12:59:56	8.32	0.0	43.00	2.50	TEST HES LINES TO 5000 PSI. RIG CHANGES OUT MUD CUP AFTER HES PRESSURE TEST
11	Test Lines	8/25/2021	13:11:43	8.38	0.0	1.00	2.50	TEST RIG VALVE TO 1800 PSI
12	Pump Spacer 1	8/25/2021	13:15:17	8.34	0.0	37.00	4.50	120 BBLS TUNED PRIME SPACER 12.5 PPG, 2.72 YIELD, 16.53 GAL/SACK, D-AIR MIX ON FLY
13	Shutdown	8/25/2021	13:35:39	13.09	0.0	92.00	0.00	SHUTDOWN
14	Drop Bottom Plug	8/25/2021	13:37:41	13.09	0.0	56.00	0.00	BOTTOM PLUG BY CHARLES
15	Pump Cap Cement	8/25/2021	13:41:29	13.10	0.0	55.00	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
16	Pump Lead Cement	8/25/2021	13:48:23	13.35	285.6	1418.00	41.30	835 SACKS ELASTICEM LEAD CEMENT. 248.35 BBLS. 13.2 PPG, 1.67 YIELD, 8.03 GAL/SACK. D-AIR MIX ON FLY
17	Shutdown	8/25/2021	14:10:06	13.35	63.0	342.00	149.90	HES IRON WAS LEAKING CEMENT. SHUTDOWN - TIGHTED WING

18	Resume Pumping	8/25/2021	14:11:15	13.40	0.0	50.00	149.90	RESUME PUMPING LEAD CEMENT. SHUTDOWN WAS APPROX 1 MINUTE.
19	Pump Tail Cement	8/25/2021	14:26:27	13.21	243.6	777.00	0.00	1103 SACKS NEOCEM TAIL CEMENT. 400.75 BBLS. 13.2 PPG, 2.04 YIELD, 9.79 GAL/SACK, D-AIR MIX ON FLY
20	Shutdown	8/25/2021	15:28:29	13.54	0.0	454.00	387.60	SHUTDOWN
21	Clean Lines	8/25/2021	15:32:00	13.48	0.0	61.00	0.00	CLEAN PUMPS AND LINES
22	Drop Top Plug	8/25/2021	15:38:34	8.19	0.0	60.00	21.30	TOP PLUG BY CHARLES
23	Pump Displacement	8/25/2021	15:40:37	8.21	0.0	36.00	0.00	409 BBLS TREATED WATER DISPLACEMENT. FIRST 20 BBLS FRESH WATER WITH 10 GALLONS MICRO MATRIX CEMENT RETARDER. USED 50 GALLONS TOTAL D-AIR
24	Bump Plug	8/25/2021	16:58:23					FINAL CIRCULATING PRESSURE 2928 PSI/4 BPM. BUMP PRESSURE 3600 PSI. 47 BBLS SPACER TO SURFACE. PRE-JOB CALCULATED TOTC=7896' TOLC=1829' TOCC=996'
25	Other	8/25/2021	17:03:22					CHECK FLOATS. FLOATS HOLD. 6 BBLS BACK TO PUMP TRUCK
26	End Job	8/25/2021	17:07:25	8.22	0.0	3.00	0.00	STOP RECORDING DATA
27	Pre-Rig Down Safety Meeting	8/25/2021	17:30:00					DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
28	Rig-Down Equipment	8/25/2021	17:35:00					RIG DOWN BULK AND MIXING EQUIPMENT
29	Rig-Down Completed	8/25/2021	18:30:00					ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.
30	Crew Leave Location	8/25/2021	19:00:00					THANK YOU FOR USING HALLIBURTON – MIKE LOUGHRAN AND CREW.

3.0 Attachments

3.1 Job Chart

