

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 9029934		Quote #:		Sales Order #: 0906973946				
Customer: NOBLE ENERGY INC-EBUS					Customer Rep: Noble Rep					
Well Name: REVEILLE			Well #: A34-778		API/UWI #: 05-123-50791-00					
Field: WATTENBERG		City (SAP): GARDEN CITY		County/Parish: WELD			State: COLORADO			
Legal Description: SE SW-34-6N-64W-542FSL-1508FWL										
Contractor: H & P DRLG					Rig/Platform Name/Num: H & P 517					
Job BOM: 7523 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX41066					Srvc Supervisor: Kyle Bath					
Job										
Job depth MD		17022ft		BHCT		220 degF				
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	1927	0	1927
Casing	0	5.5	4.892	17			0	17022	0	6688
Open Hole Section			8.5				1927	17038	1927	6688
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Float Shoe	5.5	1	HES	17022		Top Plug	5.5	1	HES	
Float Collar	5.5	1	HES	16973		Bottom Plug	5.5	2	HES	
						Centralizers	5.5	192	Summit	

Fluid Data										
Stage #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Prime	TUNED PRIME CEMENT SPACER SYS	120	bbl	11.5	3.7				
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	ElastiCem	ELASTICEM (TM) SYSTEM	140	sack	13.2	1.6	7.63	8	1068	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
3	ElastiCem w/ SCBL	ELASTICEM (TM) SYSTEM	711	sack	13.2	1.67	8.03	8	5709	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
4	NeoCem NT1	NeoCem TM	1129	sack	13.2	2.04	9.79	8	11053	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
5	Displacement	Displacement	394	bbl	8.33					
Cement Left In Pipe										
Amount		49 ft			Reason			Shoe Joint		
Mix Water:		pH 7		Mix Water Chloride:		0 ppm		Mix Water Temperature:		73 °F
Plug Bumped?		Yes		Bump Pressure:		2427 psi		Floats Held?		Yes
Cement Returns:		0 bbl		Plug Displaced by:		8.33 lb/gal Treated Water				
Comment: RECIEVED 50 BBLS TUNED PRIME SPACER TO SURFACE. CALCULATED TOC 970, CALCULATED TOLC 1803, CALCULATED TOTC 6967.										

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Comb Pump Rate (bbl/min)	DH Density (ppg)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	2/15/2021	10:30:00					CREW CALLED OUT, REQUESTED ON LOCATION 1700
Event	2	Depart Yard Safety Meeting	2/15/2021	15:00:00					DEPART LOCATION SAFETY MEETING WITH ALL HES EE
Event	3	Crew Leave Yard	2/15/2021	15:15:00					DEPART YARD
Event	4	Arrive At Loc	2/15/2021	16:30:00					ARRIVE ON LOCATION, RECIEVE NUMBERS FROM CO REP TD 17038, TP 17021.5, SJ 48.52, CSG 5.5 17#, PREV CSG 9 5/8 36# @ 1927, HOLE 8.5, MUD 9.8, TVD 6688, CENTALIZERS 192 FROM 16974.2 TO 2048.4, WATER TEST, TEMP 73, PH 7, CHLORIDES 0
Event	5	Assessment Of Location Safety Meeting	2/15/2021	16:45:00					HAZARD ASSESMENT SAFETY MEETING WITH ALL HES EE
Event	6	Safety Meeting - Pre Rig-Up	2/15/2021	17:00:00					PRE RIG UP SAFETY MEETING AND COMMENCE RIG UP
Event	7	Safety Meeting - Pre Job	2/15/2021	23:30:00	0.00	0.15	0.00	0.00	PRE JOB SAFETY MEETING WITH RIG CREW, CO REP AND HES EE
Event	8	Start Job	2/15/2021	23:54:45	0.00	8.69	19.00	25.90	START RECORDING DATA
Event	9	Drop Bottom Plug	2/15/2021	23:55:30	0.00	8.77	8.00	25.90	LAUNCH BOTTOM PLUG
Event	10	Test Lines	2/15/2021	23:57:20	0.00	8.64	28.00	0.00	TEST LINES TO 4768 PSI
Event	11	Test Lines	2/15/2021	23:59:52	0.00	8.56	48.00	0.00	TEST IBOP TO 1850 PSI

Event	12	Check Weight	2/16/2021	00:13:42	0.00	8.45	22.00	0.00	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	13	Pump Spacer 1	2/16/2021	00:16:46	0.00	8.41	24.00	0.00	PUMP 120 BBLS TUNED PRIME SPACER 11.5 PPG, 6 BPM, 520 PSI
Event	14	Check Weight	2/16/2021	00:25:08	6.00	11.66	388.00	40.80	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	15	Drop Bottom Plug	2/16/2021	00:38:40	0.00	10.87	87.00	0.00	LAUNCH BOTTOM PLUG
Event	16	Check Weight	2/16/2021	00:41:42	0.00	10.85	50.00	0.00	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	17	Pump Cap Cement	2/16/2021	00:44:32	0.00	10.83	54.00	0.00	MIX AND PUMP 140 SKS 39.9 BBLS CAP CEMENT 13.2 PPG, 1.6 PPG, 7.63 GAL/SK, 7.5 BPM, 645 PSI, CALCULATED TOCC 970
Event	18	Pump Lead Cement	2/16/2021	00:50:22	7.50	13.24	597.00	0.10	MIX AND PUMP 711 SKS 211.5 BBLS LEAD CEMENT 13.2 PPG, 1.67 FT3/SK, 8.03 GAL/SK 7 BPM 600 PSI, CALCULATED TOLC 1803
Event	19	Check Weight	2/16/2021	00:51:37	6.80	13.27	609.00	9.10	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	20	Other	2/16/2021	00:57:27	6.80	13.23	578.00	48.90	60 BBLS INTO LEAD CEMENT P/S PUMP SHUTDOWN AND WOULDNT RESTART
Event	21	Check Weight	2/16/2021	01:10:58	6.70	13.17	566.00	140.20	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	22	Pump Tail Cement	2/16/2021	01:22:23	6.80	13.08	611.00	0.10	MIX AND PUMP 1129 SKS 410.2 BBLS TAIL CEMENT 13.2 PPG, 2.04 FT3/SK, 9.79 GAL/SK 8.5 BPM 1050 PSI, CALCULATED TOTC 6967
Event	23	Check Weight	2/16/2021	01:22:44	6.80	13.17	648.00	2.40	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	24	Check Weight	2/16/2021	01:41:42	8.60	13.25	980.00	146.00	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	25	Check Weight	2/16/2021	01:50:22	8.50	13.21	1017.00	220.10	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	26	Check Weight	2/16/2021	02:00:17	8.50	13.18	1040.00	304.70	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	27	Check Weight	2/16/2021	02:11:17	8.50	13.16	1091.00	398.60	VERIFY WEIGHT ON PRESSURIZED SCALES

Event	28	Clean Lines	2/16/2021	02:20:06	0.00	12.64	60.00	426.50	WASH PUMPS AND LINES
Event	29	Drop Top Plug	2/16/2021	02:27:21	0.00	8.31	46.00	0.00	LAUNCH TOP PLUG
Event	30	Pump Displacement	2/16/2021	02:28:23	0.00	8.29	41.00	0.00	PUMP 394 BBLS PRODUCED WATER DISPLACEMENT 10 BPM 2650 PSI, RECIEVED 50 BBLS TUNED PRIME SPACER TO SURFACE
Event	31	Other	2/16/2021	03:27:08	4.70	8.20	2587.00	372.70	RIG HAVE PROBLEMS WITH FLOW LINE, SHUTDOWN WHILE FIXING ISSUE
Event	32	Bump Plug	2/16/2021	03:39:08	0.00	8.21	2815.00	397.90	BUMP PLUG AT 2427 PSI TOOK TO 2840 PSI
Event	33	Check Floats	2/16/2021	03:45:04	0.00	8.15	2824.00	397.90	CHECK FLOATS, FLOATS HELD TOOK 5.5 BBLS BACK
Event	34	End Job	2/16/2021	03:46:58	0.00	8.14	55.00	0.00	STOP RECORDING DATA
Event	35	Safety Meeting - Pre Rig-Down	2/16/2021	03:50:00					PRE RIG DOWN SAFETY MEETING WITH ALL HES EE
Event	36	Depart Location Safety Meeting	2/16/2021	05:00:00					PRE DEPARTURE SAFETY MEETING WITH ALL HES EE
Event	37	Crew Leave Location	2/16/2021	05:30:00					THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW

3.0 Attachments

3.1 Job Chart

