

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 9029983	Quote #:	Sales Order #: 0906965822
Customer: NOBLE ENERGY INC-EBUS		Customer Rep: Noble Rep	
Well Name: REVEILLE		Well #: A34-768	API/UWI #: 05-123-50792-00
Field: WATTENBERG	City (SAP): GARDEN CITY	County/Parish: WELD	State: COLORADO
Legal Description: SE SW-34-6N-64W-519FSL-1508FWL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 517	
Job BOM: 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Kyle Bath	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHCT 220 degF
Job depth MD	16999ft	Job Depth TVD	6745ft
Water Depth			Wk Ht Above Floor
Perforation Depth (MD)	From		To

Well Data

Description	New / Used	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing	0	9.625	8.921	36			0	1946	0	1946
Casing	0	5.5	4.892	17			0	16999	0	6745
Open Hole Section			8.5				1946	17016	1946	6745

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Float Shoe	5.5	1	HES	16999	Top Plug	5.5	1	HES
Float Collar	5.5	1	HES	16950	Bottom Plug	5.5	2	HES
					Centralizers	5.5	203	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/mi n	Total Mix Fluid Gal	
1	Tuned Prime	TUNED PRIME SPACER	120	bbl	11.5	3.7			4284	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	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/mi n	Total Mix Fluid Gal	
3	ElastiCem w/ SCBL	ELASTICEM (TM) SYSTEM	707	sack	13.2	1.67	8.03	8	5677	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
4	NeoCem NT1	NeoCem TM	1128	sack	13.2	2.04	9.79	8	11043	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
5	Displacement	Displacement	0	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:		72 °F
Cement Temperature:				Plug Displaced by:		8.33 lb/gal Treated Water		Disp. Temperature:		
Plug Bumped?		Yes		Bump Pressure:		2420 psi		Floats Held?		Yes/No
Cement Returns:		0 bbl		Returns Density:				Returns Temperature:		
Comment: RECIEVED 50 BBLS TUNED PRIME SPACER TO SURFACE, CALCULATED TOC 989, CALCULATED TOLC 1822, , CALCULATED TOTC 6954.										

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Recirc Density (ppg)	Comments
Event	1	Call Out	2/10/2021	22:30:00					CREW CALLED OUT, REQUESTED ON LOCATION 0430
Event	2	Depart Yard Safety Meeting	2/10/2021	23:45:00					DEPART LOCATION SAFETY MEETING WITH ALL HES EE
Event	3	Crew Leave Yard	2/11/2021	00:01:00					DEPART YARD
Event	4	Arrive At Loc	2/11/2021	01:00:00					ARRIVE ON LOCATION, RECIEVE NUMBERS FROM CO REP TD 17016, TP 16998.5, SJ 48.85, CSG 5.5 17#, PREV CSG 9 5/8 36# @ 1946, HOLE 8.5, MUD 9.6, TVD 6745, 203 CENTRALIZERS FROM 16950 TO 937, WATER TEST, TEMP 72, PH 7, CHLORIDES 0
Event	5	Assessment Of Location Safety Meeting	2/11/2021	01:30:00					HAZARD ASSESMENT SAFETY MEETING WITH ALL HES EE
Event	6	Safety Meeting - Pre Rig-Up	2/11/2021	06:30:00					PRE RIG UP SAFETY MEETING AND COMMENCE RIG UP
Event	7	Safety Meeting - Pre Job	2/11/2021	09:00:00	0.00	-23.00	0.00	0.02	PRE JOB SAFETY MEETING WITH RIG CREW, CO REP AND HES EE
Event	8	Start Job	2/11/2021	09:34:08	0.00	1.00	0.00	9.42	START RECORDING DATA, DOWNHOLE NOT READING CHART RECIRC DENSITY
Event	9	Drop Bottom Plug	2/11/2021	09:34:34	0.00	-1.00	0.00	11.09	LAUNCH BOTTOM PLUG
Event	10	Test Lines	2/11/2021	09:36:58	0.00	63.00	2.20	11.78	TEST LINES TO 4590 PSI

Event	11	Check Weight	2/11/2021	09:40:29	2.10	91.00	2.80	11.69	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	12	Test Lines	2/11/2021	09:41:57	0.00	142.00	4.50	11.79	TEST IBOP TO 2000 PSI
Event	13	Pump Spacer 1	2/11/2021	09:46:12	0.00	49.00	4.70	11.49	PUMP 120 BBLS TUNED PRIME SPACER 11.5 PPG 6.5 BPM 375 PSI
Event	14	Check Weight	2/11/2021	10:08:31	0.00	44.00	118.20	13.35	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	15	Drop Bottom Plug	2/11/2021	10:08:38	0.00	44.00	118.20	13.34	LAUNCH BOTTOM PLUG
Event	16	Pump Cap Cement	2/11/2021	10:10:29	0.00	44.00	0.00	13.03	MIX AND PUMP 140 SKS 39.9 BBLS CAP CEMENT 13.2 PPG, 1.6 FT3/SK, 7.63 GAL/SK 6 BPM 500 PSI, CALCULATED TOCC 989
Event	17	Pump Lead Cement	2/11/2021	10:19:55	6.30	590.00	49.20	13.30	MIX AND PUMP 707 SKS 210 BBLS LEAD CEMENT 13.2 PPG, 1.67 FT3/SK, 8.03 GAL/SK 8 BPM 800 PSI, CALCULATED TOLC 1822
Event	18	Check Weight	2/11/2021	10:21:57	6.30	569.00	12.70	13.21	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	19	Check Weight	2/11/2021	10:30:58	8.10	739.00	80.20	13.19	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	20	Pump Tail Cement	2/11/2021	10:47:09	8.60	750.00	0.10	13.17	MIX AND PUMP 1128 SKS 410 BBLS TAIL CEMENT 13.2 PPG, 2.04 FT3/SK, 9.79 GAL/SK, 8.5 BPM 1050 PSI, CALCULATED TOTC 6954
Event	21	Check Weight	2/11/2021	10:47:35	8.60	872.00	3.80	13.18	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	22	Check Weight	2/11/2021	10:59:48	8.50	1005.00	108.00	13.19	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	23	Check Weight	2/11/2021	11:19:34	8.50	987.00	276.50	13.18	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	24	Clean Lines	2/11/2021	11:42:24	0.00	52.00	0.00	8.61	WASH PUMPS AND LINES TO PIT
Event	25	Drop Top Plug	2/11/2021	11:56:57	0.00	33.00	0.00	8.52	LAUNCH TOP PLUG
Event	26	Pump Displacement	2/11/2021	11:58:20	0.00	31.00	0.00	8.52	PUMP 393 BBLS PRODUCED WATER DISPLACEMENT 10 BPM 2800 PSI, RECIEVED 50 BBLS TUNED PRIME SPACER TO SURFACE

Event	27	Other	2/11/2021	12:34:23	3.80	538.00	309.90	8.52	SHUTDOWN DUE TO LEAK ON STANDPIPE
Event	28	Bump Plug	2/11/2021	12:52:28	0.00	2814.00	399.30	8.52	BUMP PLUG AT 2420 PSI TOOK TO 2820 PSI
Event	29	Check Floats	2/11/2021	12:58:25	0.00	210.00	0.00	8.52	CHECK FLOATS, FLOATS HELD TOOK 4.5 BBLS BACK TO TRUCK
Event	30	End Job	2/11/2021	13:00:59	0.00	6.00	0.00	8.52	
Event	31	Safety Meeting - Pre Rig-Down	2/11/2021	13:05:00					PRE RIG DOWN SAFETY MEETING WITH ALL HES EE
Event	32	Depart Location Safety Meeting	2/11/2021	14:50:00					PRE DEPARTURE SAFETY MEETING WITH ALL HES EE
Event	33	Crew Leave Location	2/11/2021	15:20:00					THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW

3.0 Attachments

3.1 Job Chart

