

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 9029933		Quote #:		Sales Order #: 0906989120				
Customer: NOBLE ENERGY INC-EBUS					Customer Rep: Noble Rep					
Well Name: REVEILLE			Well #: A33-720			API/UWI #: 05-123-50790-00				
Field: WATTNEBERG		City (SAP): GARDEN CITY		County/Parish: WELD			State: COLORADO			
Legal Description: SE SW-34-6N-64W-587FSL-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										
Job depth MD		17490ft		Job Depth TVD		6681ft				
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	17490	0	6681
Open Hole Section			8.5				1927	17500	1928	6681
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Float Shoe	5.5	1	HES	17490		Top Plug	5.5	1	HES	
Float Collar	5.5	1	HES	17441		Bottom Plug	5.5	2	HES	
						Centralizers	5.5	206	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 SPACER	120	bbl	11.5	3.7			4278	
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™ 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™ SYSTEM	768	sack	13.2	1.67	8.03	8	6167	
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	NEOCEM™ SYSTEM	1124	sack	13.2	2.04	9.79	8	11004	
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	Treated Water	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:		79 °F	
Plug Bumped?		Yes	Plug Displaced by:		8.33 lb/gal Treated Water		Floats Held?		Yes	
Cement Returns:		0 bbl	Bump Pressure:		2408 psi					
Comment: CENTRALIZERS 206 FROM 17440 TO 994.										

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	2/25/2021	07:00:00					CREW CALLED OUT, REQUESTED ON LOCATION 1300
Event	2	Depart Yard Safety Meeting	2/25/2021	09:45:00					DEPART LOCATION SAFETY MEETING WITH ALL HES EE
Event	3	Crew Leave Yard	2/25/2021	10:00:00					DEPART YARD
Event	4	Arrive At Loc	2/25/2021	11:10:00					ARRIVE ON LOCATION, RECIEVE NUMBERS FROM CO REP TD 17500, TP 17489.5, SJ 48.61, CSG 5.5 17#, PREV CSG 9 5/8 36# @ 1927.6, HOLE 8.5, MUD 9.8+, TVD 6681, CENTRALIZERS 206 FROM 17440 TO 994, WATER TEST, TEMP 79, PH 7, CHLORIDES 0
Event	5	Assessment Of Location Safety Meeting	2/25/2021	11:25:00					HAZARD ASSESMENT SAFETY MEETING WITH ALL HES EE
Event	6	Safety Meeting - Pre Rig-Up	2/25/2021	11:45:00					PRE RIG UP SAFETY MEETING AND COMMENCE RIG UP
Event	7	Safety Meeting - Pre Job	2/25/2021	15:50:00	0.00	8.04	-18.00	15.60	PRE JOB SAFETY MEETING WITH RIG CREW, CO REP AND HES EE
Event	8	Start Job	2/25/2021	16:09:34	0.00	8.04	-20.00	15.60	START RECORDING DATA
Event	9	Drop Bottom Plug	2/25/2021	16:10:07	0.00	8.02	-23.00	15.60	LAUNCH BOTTOM PLUG
Event	10	Test Lines	2/25/2021	16:11:46	0.00	8.25	60.00	18.00	TEST LINES TO 5500 PSI
Event	11	Test Lines	2/25/2021	16:15:40	0.90	8.26	173.00	20.10	TEST IBOP TO 2000 PSI

Event	12	Pump Spacer 1	2/25/2021	16:17:29	0.00	8.24	12.00	20.20	PUMP TUNED PRIME SPACER 11.5 PPG 8 BPM 400 PSI
Event	13	Pump Lead Cement	2/25/2021	16:42:36	6.40	12.17	236.00	0.10	MIX 140 SKS 39.9 BBLS CAP CEMENT 13.2 PPG, 1.6 FT3/SK, 7.63 GAL/SK 3 BPM 100 PSI, CALCULATED TOCC 1055
Event	14	Check Weight	2/25/2021	16:53:22	1.50	13.50	158.00	22.80	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	15	Pump Lead Cement	2/25/2021	16:57:37	4.80	12.98	263.00	0.00	MIX AND PUMP 768 SKS 228.4 BBLS LEAD CEMENT 13.2 PPG, 1.67 FT3/SK, 8.03 GAL/SK 8.5 BPM 580 PSI, CALCULATED TOLC 1887
Event	16	Check Weight	2/25/2021	17:07:28	6.00	12.99	346.00	25.30	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	17	Pump Tail Cement	2/25/2021	17:34:07	4.90	12.99	283.00	245.40	MIX AND PUMP 1124 SKS 408.4 BBLS TAIL CEMENT 13.2 PPG, 2.04 FT3/SK, 9.79 GAL/SK 8.5 BPM 1000 PSI, CALCULATED TOTC 7479
Event	18	Check Weight	2/25/2021	17:35:44	6.20	13.05	455.00	11.50	VERIFY WEIGHT ON PRESSURIZED SCALES
Event	19	Shutdown	2/25/2021	18:38:23	0.00	8.18	9.00	436.20	SHUTDOWN, WASH PUMPS AND LINES TO TANK
Event	20	Drop Top Plug	2/25/2021	18:38:27	0.00	8.18	9.00	436.20	LAUNCH TOP PLUG
Event	21	Pump Displacement	2/25/2021	18:38:31	0.00	8.18	9.00	436.20	PUMP 404 BBLS PRODUCED WATER DISPLACEMENT 10 BPM 2800 PSI, FIRST 20 WITH MMCR, RECIEVED 45 BBLS TUNED PRIME SPACER TO SURFACE
Event	22	Bump Plug	2/25/2021	19:27:46	0.00	8.33	2956.00	408.80	BUMP PLUG AT 2500 PSI TOOK TO 2950 PSI
Event	23	Check Floats	2/25/2021	19:32:30	0.00	8.30	3018.00	408.80	CHECK FLOATS, FLOATS HELD RECIEVED 5.5 BLS BACK
Event	24	End Job	2/25/2021	19:34:49	0.00	8.26	-17.00	0.00	STOP RECORDING DATA
Event	25	Safety Meeting - Pre Rig-Down	2/25/2021	19:37:00					PRE RIG DOWN SAFETY MEETING WITH ALL HES EE
Event	26	Depart Location Safety Meeting	2/25/2021	20:30:00					PRE DEPARTURE SAFETY MEETING WITH ALL HES EE

Event 27 Crew Leave Location 2/25/2021 21:00:00

THANK YOU FOR USING HALLIBURTON, KYLE BATH AND
CREW

3.0 Attachments

3.1 Job Chart

