

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 3925507		Quote #:		Sales Order #: 0907577950					
Customer: NOBLE ENERGY INC-EBUS				Customer Rep: Dave Nielsen							
Well Name: BOOTH			Well #: D11-725			API/UWI #: 05-123-48921-00					
Field: WATTENBERG		City (SAP): KERSEY		County/Parish: WELD			State: COLORADO				
Legal Description: NW NE-2-3N-64W-292FNL-1715FEL											
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		17506ft			Job Depth TVD		6737ft				
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	1942	0	1942	
Casing		5.5	4.892	17			0	17506	0	6737	
Open Hole Section			8.5				1942	17517	1942	6737	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Float Shoe	5.5	1	HES	17506		Top Plug	5.5	1	HES		
Float Collar	5.5	1	HES	17462		Bottom Plug	5.5	2	HES		
						Centralizers	5.5	216	Summit		

Fluid Data										
Stage/Plug #: 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 Cement Spacer	120	bbl	11.5	3.92	24.67	6	4237	
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	Lead 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™	724	sack	13.2	1.67	8.03	8	5814	
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™	1173	sack	13.2	2.04	9.79	8	11484	
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	405	bbl	8.33				16983	
Cement Left In Pipe		Amount	44 ft		Reason			Shoe Joint		
Mix Water:		pH 6	Mix Water Chloride:		Less 200 ppm		Mix Water Temperature:			67 °F
Plug Bumped?		Yes	Plug Displaced by:		8.33 lb/gal Treated Water		Disp. Temperature:			67 °F
Cement Returns:		0 bbl.	Bump Pressure:		2427 psi		Floats Held?			Yes
Comment 216 centralizers from 17463'-996'										

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq. No.	Activity	Date	Time	Dwnhole Density (ppg)	Cmb Pump Rate (bbl/min)	Pump A Pressure (psi)	Cmb Stg Total (bbl)	Comments
1	Call Out	12/24/2021	00:01:00					CREW CALLED OUT 0001 HRS 12/24/2021. REQUESTED ON LOCATION AT 0600 HRS. 12/24/2021
2	Crew Leave Yard	12/24/2021	04:45:00					CREW LEAVES YARD
3	Arrive At Loc	12/24/2021	05:50:00					MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING- 9.625" 36 LB/FT 1942', 5.5" CASING: 17 LB/FT TOTAL 17506, 8.5" HOLE, TD 17517', F/C 17462.3', TVD- 6737'. WATER TEST 67 DEGREES, PH 6, CHLORIDES LESS THAN 200 PPM. 216 CENTRALIZERS FROM 17463'-996'
4	Pre-Rig Up Safety Meeting	12/24/2021	09:25:00					HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP, AND WEATHER.
5	Rig-Up Equipment	12/24/2021	09:30:00					CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON AND WATER HOSES TO PERFORM JOB.
6	Pre-Job Safety Meeting	12/24/2021	11:15:00	-1.02	0.00	7.35	1.63	SAFETY MEETING WITH HALLIBURTON, AND RIG PERSONNEL. CREW COMMUNICATED POTENTIAL SAFETY HAZARDS, AND JOB DETAILS.
7	Start Job	12/24/2021	11:29:09	8.34	0.00	5.53	0.00	
8	Start Job	12/24/2021	11:39:16	8.34	0.00	7.34	0.00	BEGIN RECORDING DATA. RIG CIRCULATES 10 BPM/870 PSI. RIG CIRCS 714 BBLS.
9	Drop Bottom Plug	12/24/2021	11:39:37	8.21	1.65	9.03	0.04	BOTTOM PLUG BY DAVE
10	Test Lines	12/24/2021	11:41:39	8.58	0.00	125.70	3.38	TEST HES LINES 5000 PSI. TEST RIG VALVE 1800 PSI
11	Pump Spacer 1	12/24/2021	11:49:55	8.51	0.00	48.13	0.00	120 BBLS TUNED PRIME SPACER. 11.5 PPG, 3.92 YIELD, 24.67 GAL/SACK. D-AIR ON FLY. RIG WAS NOT SEEING LOSSES AND DECLINED WELL LIFE
12	Shutdown	12/24/2021	12:09:11	11.43	0.44	197.03	116.06	SHUTDOWN
13	Drop Bottom Plug	12/24/2021	12:10:23	11.37	0.00	62.93	0.00	BOTTOM PLUG BY DAVE
14	Pump Cap Cement	12/24/2021	12:18:39	11.30	0.00	57.84	0.00	140 SACKS SBM CEM ELASTICEM CAP CEMENT. 39.89 BBLS. 13.2 PPG, 1.6 YIELD, 7.63 GAL/SACK. ESTIMATED TOCC=994'
15	Pump Lead Cement	12/24/2021	12:24:47	13.18	8.35	706.83	0.14	724 SACKS SBM CEM ELASTICEM LEAD CEMENT. 215.34 BBLS. 13.2 PPG, 1.67 YIELD, 8.03 GAL/SACK. ESTIMATED TOLC=1827'

16	Pump Tail Cement	12/24/2021	12:53:27	13.06	8.39	741.50	0.07	1173 SACKS NEO CEM TAIL CEMENT. 426.18 BBLS. 13.2 PPG, 2.04 YIELD, 9.79 GAL/SACK. ESTIMATED TOTC=7085'
17	Shutdown	12/24/2021	13:56:43	12.90	0.00	130.15	489.06	SHUTDOWN
18	Clean Lines	12/24/2021	13:58:56	12.92	0.00	71.58	0.00	CLEAN PUMPS AND LINES
19	Shutdown	12/24/2021	14:04:38	7.48	0.24	105.98	17.46	SHUTDOWN
20	Drop Top Plug	12/24/2021	14:05:27	7.47	0.00	54.39	17.46	TOP PLUG BY DAVE
21	Pump Displacement	12/24/2021	14:06:10	7.47	0.00	50.87	0.00	405 BBLS FRESH WATER DISPLACEMENT. 10 GALLONS MMCR IN FIRST 20 BBLS. 10 GALLONS MC-MX 820, 15 GALLONS BELLACIDE. USED 60 GALLONS D-AIR FOR ENTIRE JOB. SPACER OVERBOARD AT 300 BBLS INTO DISPLACE. GOOD SPACER AT HIGHWALL AT 333 BBLS INTO DISPLACEMENT. APPROX 72 BBLS SPACER TO SURFACE
22	Bump Plug	12/24/2021	15:00:57	8.50	0.00	2883.58	401.20	FCP 2427 PSI/4 BPM. BUMP PRESSURE 3037 PSI.
23	Check Floats	12/24/2021	15:06:37	8.29	0.00	738.65	401.20	FLOATS HOLD. 5 BBLS BACK
24	End Job	12/24/2021	15:08:35	8.28	0.00	32.17	0.00	STOP RECORDING DATA
25	Pre-Rig Down Safety Meeting	12/24/2021	15:15:00					DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
26	Rig-Down Equipment	12/24/2021	15:20:00					RIG DOWN BULK AND MIXING EQUIPMENT
27	Rig-Down Completed	12/24/2021	16:00:00					ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.
28	Crew Leave Location	12/24/2021	16:30:00					THANK YOU FOR USING HALLIBURTON – MIKE LOUGHRAN AND CREW.

3.0 Attachments

3.1 Job Chart

