

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 3927484		Quote #:		Sales Order #: 0907630759				
Customer: NOBLE ENERGY INC-EBUS					Customer Rep: John Drahota					
Well Name: BOOTH			Well #: D11-775			API/UWI #: 05-123-49026-00				
Field: WATTENBERG		City (SAP): KERSEY		County/Parish: WELD			State: COLORADO			
Legal Description: NE NW-2-3N-64W-324FNL-2471FWL										
Contractor: H & P DRLG					Rig/Platform Name/Num: H & P 517					
Job BOM: 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX41066					Srvc Supervisor: Bradley Hinkle					
Job										
Job depth MD 17681ft Job Depth TVD 6727ft										
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	1948	0	1948
Casing		5.5	4.892	17			0	17681	0	6727
Open Hole Section			8.5				1948	17690	1948	6727
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Float Shoe	5.5	1	HES	17681		Top Plug	5.5	1	HES	
Float Collar	5.5	1	HES	17637		Bottom Plug	5.5	2	HES	
						Centralizers	5.5	223	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	11.5	3.92	24.67	7	4240
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™	752	sack	13.2	1.67	8.03	8	6038
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™	1166	sack	13.2	2.04	9.79	8	11415
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 Water with MMCR	20	bbl	8.33			10	830
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
6	Displacement	Treated Water	389	bbl	8.4			10	16313
Cement Left In Pipe	Amount	Reason			Shoe Joint				
Mix Water:	pH 7	Mix Water Chloride:	0 ppm	Mix Water Temperature:	70 °F				
Plug Bumped?	Yes	Plug Displaced by:	8.33 lb/gal Treated Water	Disp. Temperature:	70 °F				
Spacer Returns:	65 bbl.	Bump Pressure:	2406 psi	Floats Held?	Yes				
Comment: 65 bbl. spacer to surface. Estimated top of cap cement at 1148 feet. Estimated top of lead cement at 1952 feet. Estimated top of tail cement at 7415 feet.									

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq. No.	Activity	Date	Time	Comments
1	Call Out	1/22/2022	05:30:00	Crew called for an on location time of 1130. Crew was Bradley Hinkle, David Womack and Brandon Parker.
2	Depart Shop for Location	1/22/2022	10:15:00	Pre-journey safety meeting. Discussed possible ice on the roads.
3	Arrive at Location from Service Center	1/22/2022	11:00:00	Check-in, perform a site assessment and pre-rig up safety meeting.
4	Job Numbers	1/22/2022	11:10:00	TD: 17690 TP: 17681.5 FC: 17637.7 - 5.5" 17# casing inside an 8.5" OH. 9.625" 36# surface casing set at 1948. Mud weight: 10 ppg.
5	Safety Meeting - Pre Job	1/22/2022	16:15:00	Pre-job safety meeting with all personnel on location. Discussed safety protocols and job procedure.
6	Start Job	1/22/2022	16:58:33	
7	Test Lines	1/22/2022	17:00:33	Pressure test lines to 4500 psi with a 500 psi electronic kick-out test. Bleed pressure off and close I-BOP to test rig line to 2000 psi. Pressure held on both test with no visible leaks.
8	Drop Bottom Plug	1/22/2022	17:08:36	Bottom plug loaded into casing. Witnessed by customer.
9	Pump Spacer 1	1/22/2022	17:09:13	Pump 120 bbl. Tuned Prime Spacer mixed at 11.5 ppg. Density verified by pressurized scales.
10	Drop Bottom Plug	1/22/2022	17:27:23	Drop bottom plug into casing. Witnessed by customer.
11	Pump Cement	1/22/2022	17:30:02	Pump 40 bbl. (140 sacks, 1.6 yield, 7.63 gal/sk) ElastiCem with no CBL mixed at 13.2 ppg. Density verified by pressurized scales.
12	Pump Lead Cement	1/22/2022	17:36:36	Pump 223 bbl. (752 sacks, 1.67 yield, 8.03 gal/sk) ElastiCem with CBL mixed at 13.2 ppg. Density verified by pressurized scales.

13	Pump Tail Cement	1/22/2022	18:06:17	Pump 423 bbl. (1166 sacks, 2.04 yield, 9.79 gal/sk) NeoCem mixed at 13.2 ppg. Density verified by pressurized scales.
14	Check Weight	1/22/2022	18:24:13	Cement weighed at 13.2 ppg.
15	Shutdown	1/22/2022	18:57:27	Shutdown and line up on rig floor to clean lines. Washed pumps and lines until clean.
16	Drop Top Plug	1/22/2022	19:09:49	Top plug loaded into casing. Witnessed by customer.
17	Pump Displacement	1/22/2022	19:09:52	Pump 20 bbl. MMCR water followed by another 389 bbl. treated water with Bellacide and Corrosion Inhibitor. A total of 409 bbl. on displacement. Good returns throughout. 65 bbl. of spacer to surface. Estimated top of cement at 1148 feet. Estimated top of lead cement at 1952 feet. Estimated top of tail cement at 7415 feet.
18	Shutdown	1/22/2022	19:26:57	Packer Cup on CRT began leaking and needed changed out.
19	Resume Pumping	1/22/2022	19:33:15	Resume pumping after Packer Cup was replaced on CRT.
20	Bump Plug	1/22/2022	20:04:27	Final circulating pressure at 2406 psi and final bump pressure at 3106 psi. Held for five minutes with a final pressure of 3229 psi.
21	Check Floats	1/22/2022	20:10:00	Floats held. 5.5 bbl. back.
22	End Job	1/22/2022	20:11:31	
23	Pre-Rig Down Safety Meeting	1/22/2022	20:16:00	Pre-rig down safety meeting.
24	Depart Location for Service Center or Other Site	1/22/2022	21:15:00	Pre-journey safety meeting.

3.0 Attachments

3.1 Job Chart

