

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 9059385		Quote #:		Sales Order #: 0907444078				
Customer: NOBLE ENERGY INC-EBUS					Customer Rep: Charles Collver					
Well Name: ROTH			Well #: A32-790			API/UWI #: 05-123-51332-00				
Field: WATTENBERG		City (SAP): GARDEN CITY		County/Parish: WELD			State: COLORADO			
Legal Description: NE NE-30-6N-64W-949FNL-270FEL										
Contractor: H & P DRLG					Rig/Platform Name/Num: H & P 517					
Job BOM: 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX41066					Srvc Supervisor: Jacob Ayers					
Job										
Job depth MD		17142ft			Job Depth TVD					
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	1951		
Casing		5.5	4.892	17			0	17142		
Open Hole Section			8.5				1951	17153		
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Float Shoe	5.5	1	HES	17142		Top Plug	5.5	1	HES	
Float Collar	5.5	1	HES	17093		Bottom Plug	5.5	2	HES	

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 Cement Spacer	120	bbl	11.5	3.74		6	4284
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	Cement	ElastiCem Cap Cement	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	Cement	ElastiCem Lead Cement	752	sack	13.2	1.66	8.03	9	6039
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	Cement	NeoCem Tail Cement	1108	sack	13.2	2.04	9.79	9	10847
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	396	bbl	8.33				16632
Cement Left In Pipe									
Amount		49 ft			Reason			Shoe Joint	
Mix Water:		pH 7		Mix Water Chloride:		<291 ppm		Mix Water Temperature:	
								58 °F	
Plug Bumped?		Yes		Plug Displaced by:		8.33 lb/gal Treated Water		Disp. Temperature:	
								58 °F	
Cement Returns:		0 bbl.		Bump Pressure:		2310 psi		Floats Held?	
								Yes	
Comment: Got 70 bbl. spacer to surface.									

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq No.	Activity	Date	Time	Pump A Pressure (psi)	Dwnhole Density (ppg)	Cmb Pump Rate (bbl/min)	Cmb Stg Total (bbl)	Comments
1	Call Out	10/19/2021	02:00:00					Job Called out @1200
2	Arrive at Rig	10/19/2021	08:30:00					Requested on location time 830 Crew arrived on time
3	Well info	10/19/2021	08:45:00					Surface 9 5/8" 36# 1951' OH- 8 1/5" 17153 ' Production- 5 1/2" 17142' 17# SJ- 45.8'
4	Water Test	10/19/2021	08:50:00					PH- 7 Temp- 58 Chlorides<291 Sulfates<200
5	Pre-Rig Up Safety Meeting	10/19/2021	09:00:00					Pre-rig up meeting with Crew
6	Pre-Job Safety Meeting	10/19/2021	09:10:00					Pre-Job Safety meeting held with all affected personnel on location.
7	Start Job	10/19/2021	12:31:16	-0.23	8.42	0.00	0.00	
8	Prime Pumps	10/19/2021	12:49:22	5064.32	8.68	0.00	4.42	Pumped 5 bbl. water to prime pumps and lines
9	Test Lines	10/19/2021	12:53:20	2413.57	8.47	0.00	5.01	Test pumps and lines to 5000 psi
10	Drop 1st Bottom Plug	10/19/2021	13:02:52	617.23	11.54	7.13	32.64	
11	Pump Tuned Spacer	10/19/2021	13:04:10	684.95	11.61	6.97	41.75	Pumped 120 bbl. tuned prime spacer @ 11.5#
12	Check Weight	10/19/2021	13:07:37	600.39	11.55	7.18	66.27	
13	Drop 2nd Bottom Plug	10/19/2021	13:29:29	652.48	13.19	7.97	38.12	
14	Pump Cap Cement	10/19/2021	13:30:56	577.92	13.23	7.99	5.72	140 sks 39.8 bbl. @13.2# 1.6 yield 7.63 wrq

15	Check Weight	10/19/2021	13:32:34	529.48	13.18	7.95	18.73	
16	Pump Lead Cement	10/19/2021	13:38:09	615.11	13.29	7.90	63.20	752 sks 222.3 bbl. @ 13.2# 1.66 yield 8.03 wrq
17	Check Weight	10/19/2021	13:39:48	590.51	13.25	8.01	76.34	
18	Pump Tail Cement	10/19/2021	14:10:50	891.31	13.25	7.98	59.60	1108 sks 402.5 bbl. @ 13.2# 2.04 yield 9.79 wrq
19	Shutdown, Clean Lines	10/19/2021	15:04:09					Washed pumps and lines
20	Drop Plug	10/19/2021	15:14:49	1451.33	8.47	9.51	49.79	Dropped top plug
21	Pump Displacement	10/19/2021	15:15:51	1524.31	8.49	9.45	59.61	Calculated 396 bbl. displacement. 20 bbl. with MMCR, 340bbl treated water, and 30 bbl. fresh
22	Spacer Returns to Surface	10/19/2021	15:51:09	2774.97	8.39	6.71	367.81	Calculated 70 bbl. of cement spacer to return to surface. 70 bbl. of spacer actually returned
23	Bump Plug	10/19/2021	16:01:00					Calculated 1730psi to land plug. Bumped plug @2300 psi
24	Check Floats	10/19/2021	16:06:43					Floats held 6 bbl. back
25	End Job	10/19/2021	17:12:54					Thank you for choosing Halliburton

3.0 Attachments

3.1 Job Chart

