

HALLIBURTON

iCem[®] Service

SRC ENERGY INC - EBUS

Bost Farm 32N-11C-L Production

Sincerely,
Meghan Jacobs

Legal Notice

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Table of Contents

1.0	Cementing Job Summary	4
1.1	Executive Summary	4
2.0	Real-Time Job Summary	7
2.1	Job Event Log	7
3.0	Attachments.....	9
3.1	Bost Farm 32N-11C-L Production – Job Chart.....	9

1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Bost Farm 32N-11C-L cement Production** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Approximately 16 bbls of cement were returned to surface.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton Fort Lupton

The Road to Excellence Starts with Safety

Sold To #: 359915		Ship To #: 3901305		Quote #:		Sales Order #: 0905762106				
Customer: SRC ENERGY INC-EBUS				Customer Rep: Buddy Davis						
Well Name: BOST FARM			Well #: 32N-11C-L			API/UWI #: 05-123-47667-00				
Field: WATTENBERG		City (SAP): WINDSOR		County/Parish: WELD			State: COLORADO			
Legal Description: SW NW-7-5N-66W-1495FNL-1119FWL										
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 462						
Job BOM: 7523 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA/HB41307				Srv Supervisor: Michael Loughran						
Job										
Formation Name										
Formation Depth (MD)		Top			Bottom					
Form Type					BHST					
Job depth MD		17383ft			Job Depth TVD					
Water Depth					Wk Ht Above Floor			5		
Perforation Depth (MD)		From			To					
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	LTC	J-55	0	1806	0	1803
Casing		5.5	4.778	20	TXP-BTC	P110IC	0	17385	0	6999
Open Hole Section			8.5				1829	17401	1803	6999
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5	1	3rd	
Float Shoe	5.5			17385		Bottom Plug	5.5	1	3rd	
Float Collar	5.5			17338		SSR plug set	5.5			
Insert Float	5.5					Plug Container	5.5	1	HES	
Stage Tool	5.5					Centralizers	5.5			
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	Tuned Prime Cement Spacer	SBM FDP-C1337-18 CEMENT SPACER SYS	80	bbl	11.5	3.84		5	
2	ElastiCem	ELASTICEM (TM) SYSTEM	1213	sack	13.2	1.57		8	7.54
3	NeoCem	NeoCem TM	1104	sack	13.2	2.04		8	9.75
4	MMCR Displacement	MMCR Displacement	20	bbl	8.34			8	
0.20 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
5	Water	Water	293.5	bbl	8.33			8	
1 gal/Mgal		CLA-WEB - BULK (101985043)							
6	MMCR Displacement	MMCR Displacement	70	bbl	8.34			8	
0.20 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
Cement Left In Pipe		Amount	0 ft			Reason			Wet Shoe Joint
Mix Water:		pH 6.5	Mix Water Chloride: Less 200 ppm			Mix Water Temperature: 62 °F			
Cement Temperature: ## °F °C		Plug Displaced by: 8.33 lb/gal			Disp. Temperature:				
Plug Bumped? Yes		Bump Pressure: 2980 psi			Floats Held? Yes				
Cement Returns:		Returns Density:			Returns Temperature:				
Comment Full returns, 6 bbl wet shoe, Floats held									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	6/18/2019	05:20:00	USER				Crew called out for on location time of 1200 hrs 6/18/2019
Event	2	Arrive At Loc	Arrive At Loc	6/18/2019	10:45:00	USER				Arrive at location, Rig running casing, Meet with customer, TP 17385 20# P-110, F/C 17338, TD 17401, 8.50 Hole, 1829' 9.625 J-55 36#, Top and Bottom plug provided by customer, 9.9 OBM, Water 65 Deg., PH 6.5, Chlorides and sulfates less than 200 ppm
Event	3	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/18/2019	11:00:00	USER				Pre rig up safety meeting
Event	4	Rig-Up Equipment	Rig-Up Equipment	6/18/2019	11:15:00	USER				Rig up all service lines and iron to buffer zone
Event	5	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/18/2019	15:30:00	USER	9.89	0.00	1.00	Discuss job procedures, Discuss job hazards and hazards of Halliburton Equipment.
Event	6	Start Job	Start Job	6/18/2019	15:51:48	COM6	9.82	0.00	-1.00	
Event	7	Start Job	Start Job	6/18/2019	15:52:11	COM6	9.80	0.00	-2.00	
Event	8	Start Job	Start Job	6/18/2019	16:08:51	USER	9.94	0.00	-3.00	Begin Recording Data
Event	9	Test Lines	Test Lines	6/18/2019	16:12:01	COM6	9.84	0.00	9.00	Test lines to 6700 PSI
Event	10	Drop Bottom Plug	Drop Bottom Plug	6/18/2019	16:17:18	COM6	9.90	0.00	10.00	Bottom Plug Verified by CM
Event	11	Pump Spacer 1	Pump Spacer 1	6/18/2019	16:17:24	COM6	9.92	0.00	10.00	80 bbls, 11.5 ppg, 3.84 yield, 23.9 gal/sack With 40 gal Dual B, 40 gal Musol,
Event	12	Pump Lead Cement	Pump Lead Cement	6/18/2019	16:30:18	COM6	11.62	6.00	173.00	1213 sacks ElastiCem, 13.2 ppg, 1.57 Yield, 7.54 gal/sack
Event	13	Check Weight	Check Weight	6/18/2019	16:56:32	COM6	13.13	8.10	399.00	
Event	14	Pump Tail Cement	Pump Tail Cement	6/18/2019	17:17:43	COM6	13.22	6.00	283.00	1104 sacks NeoCem, 401.11 bbls, 13.2 ppg, 2.04 yield, 9.75 Gal/sack

Event	15	Shutdown	Shutdown	6/18/2019	18:13:32	COM6	2.58	0.00	42.00	Shutdown to wash pumps and lines
Event	16	Drop Top Plug	Drop Top Plug	6/18/2019	18:22:25	COM6	8.04	0.00	1.00	Top Plug verified by CM
Event	17	Pump Displacement	Pump Displacement	6/18/2019	18:22:30	COM6	7.98	0.00	0.00	383.5 bbls fresh water displacement. first 20 with 5 gal micro matrix retarder, 15 gal ClayWeb, 3 Lbs. BE3, last 70 bbls 15 gal Micro matrix retarder.
Event	18	Other	Other	6/18/2019	19:15:49	COM6	8.11	3.40	2244.00	Cement returns to surface @ 367 into displacement. 16 bbls cement to surface.
Event	19	Bump Plug	Bump Plug	6/18/2019	19:18:48	COM6	8.13	0.00	2964.00	Bump plug 500 over FCP of 2500 psi at 3.5 bbl/min hold 10 min. Bump to 2980 psi.
Event	20	Check Floats	Check Floats	6/18/2019	19:28:59	USER	8.08	0.00	2826.00	Release pressure, check floats, floats hold, 4 bbl back
Event	21	Pressure Up Well	Pressure Up Well	6/18/2019	19:32:33	COM6	8.16	0.00	13.00	Pressure up well, WSS shifts at 5000 psi
Event	22	Resume	Resume	6/18/2019	19:35:23	USER	8.30	2.70	3380.00	Resume pumping 6 bbl wet shoe
Event	23	Check Floats	Check Floats	6/18/2019	19:37:16	USER	8.11	0.00	1751.00	Release pressure, Check floats, Floats hold, 2.5 bbl back
Event	24	End Job	End Job	6/18/2019	19:38:34	COM6	8.16	0.00	-3.00	Stop recording data
Event	25	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/18/2019	19:40:00	USER				
Event	26	Rig-Down Equipment	Rig-Down Equipment	6/18/2019	19:45:00	USER				Rig down equipment
Event	27	Crew Leave Location	Crew Leave Location	6/18/2019	21:30:00	USER				Thanks for choosing Halliburton Energy Services!

3.0 Attachments

3.1 Bost Farm 32N-11C-L Production – Job Chart

