

HALLIBURTON

iCem[®] Service

SRC ENERGY INC - EBUS

Bost Farms 4N-11B-L Production

Sincerely,
Meghan Jacobs

Legal Notice

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Table of Contents

1.0 Cementing Job Summary 4

 1.1 Executive Summary4

2.0 Real-Time Job Summary 7

 2.1 Job Event Log7

3.0 Attachments..... 10

 3.1 Bost Farms 4N-11B-L Production – Job Chart10

1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Bost Farm 4N-11B-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 15 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 #: 3901369		Quote #:		Sales Order #: 0905873021				
Customer: SRC ENERGY INC-EBUS				Customer Rep: Tony Pershall						
Well Name: BOST FARM			Well #: 4N-11B-L			API/UWI #: 05-123-47668-00				
Field: WATTENBERG		City (SAP): WINDSOR		County/Parish: WELD		State: COLORADO				
Legal Description: SW NW-7-5N-66W-1355FNL-1121FWL										
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 462						
Job BOM: 7523 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HB41307				Srv Supervisor: Nicholas Roles						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		17108ft		Job Depth TVD						
Water Depth				Wk Ht Above Floor						
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	1804	0	1804
Casing		5.5	4.778	20	TXP-BTC	P110IC	0	17108	0	6945
Open Hole Section			8.5				1804	17123	1804	6945
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5	1	WTF	
Float Shoe	5.5			17108		Bottom Plug	5.5	1	WTF	
Float Collar	5.5			17062		SSR plug set	5.5		HES	
WS Sub	5.5			17004		Plug Container	5.5	1	HES	
Stage Tool	5.5					Centralizers	5.5		HES	
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		6		
2	ElastiCem	ELASTICEM (TM) SYSTEM	1155	sack	13.2	1.6		8	7.8	
3	NeoCem	NeoCem TM	1062	sack	13.2	2.08		8	10.18	
4	MMCR Displacement	MMCR Displacement	20	bbl	8.34			10		
0.25 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)								
5	Water	Water	287	bbl	8.33			10		
6	MMCR Displacement	MMCR Displacement	70	bbl	8.34			10		
0.2140 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)								
Cement Left In Pipe										
Amount		0 ft			Reason			Wet Shoe		
Mix Water:		pH 06		Mix Water Chloride:		0 ppm		Mix Water Temperature:		75 °F
Cement Temperature:		## °F °C		Plug Displaced by:		8.33 lb/gal		Disp. Temperature:		75 °F
Plug Bumped?		Yes		Bump Pressure:		2900 psi MPa		Floats Held?		Yes
Cement Returns:		15 bbl m3		Returns Density:		## lb/gal kg/m3		Returns Temperature:		## °F °C
Comment Got 15bbls cement to surface. Estimated TOT-7475'										

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	DS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	8/1/2019	04:00:00	USER				Called out by Service Coordinator for O/L at 1000
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	8/1/2019	07:45:00	USER				Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit to drive.
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	8/1/2019	08:00:00	USER				Journey Management prior to departure
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	8/1/2019	09:00:00	USER				Upon arrival met with company man to discuss job details and calculations, performed hazard hunt and site assessment.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	8/1/2019	09:15:00	USER				Discussed rigging up hazards and procedure according to HMS.
Event	6	Other	Other	8/1/2019	10:30:00	USER				Water test- PH-6, Chlor-0, Temp-75. Cement temp-75.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	8/1/2019	12:00:00	USER	0.00	8.46	8.00	Held safety meeting with all job associated personnel to discuss job procedure, hazards and stop work authority.
Event	8	Start Job	Start Job	8/1/2019	13:50:12	COM4	0.00	8.46	2.00	TD-17123', TP-17108' 5.5" 20#, WS Sub-17004', TVD-6945', OH-8.5", SURF-1854' 9.625" 36#, MUD-10.8#
Event	9	Test Lines	Test Lines	8/1/2019	13:52:14	COM4	0.00	8.33	251.00	Pumped 5bbls fresh water to fill lines, closed manifold and performed 500psi k/o function test, proceeded to perform 5th gear stall at 1452psi, continued to bring pressure up to 6500psi. Pressure stabilized and held with no leaks
Event	10	Drop Bottom Plug	Drop Bottom Plug	8/1/2019	14:02:47	COM4	0.00	8.41	-7.00	Dropped by HES supervisor, witnessed by company man.
Event	11	Pump Spacer 1	Pump Spacer 1	8/1/2019	14:02:56	COM4	0.00	8.41	-6.00	Pumped 80bbls 11.5# 3.84y 23.9g/s Tuned Prime Spacer with 40g Musol A, 40g Dual Spacer B and 10g D-Air at 6bpm 550psi.

Event	12	Pump Lead Cement	Pump Lead Cement	8/1/2019	14:15:16	COM4	6.20	11.42	541.00	Pumped 1155sks or 329bbbls 13.2# 1.6y 7.8g/s Gasstop at 8bpm 450psi.
Event	13	Check Weight	Check Weight	8/1/2019	14:19:52	COM4	5.10	13.56	391.00	Weight verified with pressurized mud scales.
Event	14	Check Weight	Check Weight	8/1/2019	14:21:11	COM4	5.10	13.49	352.00	Weight verified with pressurized mud scales.
Event	15	Check Weight	Check Weight	8/1/2019	14:30:01	COM4	8.00	13.21	601.00	Weight verified with pressurized mud scales.
Event	16	Check Weight	Check Weight	8/1/2019	14:48:25	COM4	8.00	13.24	448.00	Weight verified with pressurized mud scales.
Event	17	Pump Tail Cement	Pump Tail Cement	8/1/2019	15:02:59	COM4	8.00	13.03	408.00	Pumped 1062sks or 393bbbls 13.2# 2.08y 10.18g/s Neocem at 8bpm 580psi.
Event	18	Check Weight	Check Weight	8/1/2019	15:14:51	COM4	8.00	13.15	749.00	Weight verified with pressurized mud scales.
Event	19	Check Weight	Check Weight	8/1/2019	15:31:45	COM4	8.00	13.16	834.00	Weight verified with pressurized mud scales.
Event	20	Shutdown	Shutdown	8/1/2019	15:55:39	COM4	0.00	13.19	87.00	Pumped 5bbbls fresh water to clean through pumps and lines.
Event	21	Drop Top Plug	Drop Top Plug	8/1/2019	16:03:28	COM4	0.00	8.55	-7.00	Dropped by HES supervisor, witnessed by company man.
Event	22	Pump Displacement	Pump Displacement	8/1/2019	16:03:32	COM4	0.00	8.63	-8.00	Pumped 377bbbls fresh water with 10g MMCR in first 40bbbls, 10g MMCR in the last 70bbbls, 20g clayweb and 3# biocide throughout.
Event	23	Bump Plug	Bump Plug	8/1/2019	17:11:23	COM4				Slowed down to 3bpm at 355bbbls away, final circulating pressure-2395psi, bump pressure-2900psi.
Event	24	Pressure Up Well	Pressure Up Well	8/1/2019	17:14:20	COM4	1.80	8.18	5225.00	Pumped fresh water to sheer at 5225psi, continued to pump 6bbbls fresh water at 3bpm 2250psi.
Event	25	Other	Other	8/1/2019	17:17:29	COM4				Released pressure and got 2.5bbbls back to pump. Floats held.
Event	26	End Job	End Job	8/1/2019	17:19:27	COM4	0.00	8.05	-10.00	Got 15bbbls cement to surface. Estimated TOT-7475'
Event	27	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	8/1/2019	17:25:00	USER				Discussed rigging down hazards and procedure according to HMS with all HES personnel
Event	28	Safety Meeting - Departing Location	Safety Meeting - Departing Location	8/1/2019	18:45:00	USER				Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit to drive.

Event	29	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	8/1/2019	19:00:00	USER	Pre journey management prior to departure.
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3.0 Attachments

3.1 Bost Farms 4N-11B-L Production – Job Chart

