

HALLIBURTON

iCem[®] Service

SRC ENERGY

Date: Monday, January 29, 2018

FALKEN 34N-9C-L PRODUCTION

Job Date: Tuesday, January 16, 2018

Sincerely,

Julia Nichols

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **FALKEN 34N-9C-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 95 barrels 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]

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 359915	Ship To #: 3815883	Quote #: 0022361580	Sales Order #: 0904566422
Customer: SRC ENERGY INC-EBUS		Customer Rep: Caleb	
Well Name: FALKEN	Well #: 34N-9C-L	API/UWI #: 05-123-45106-00	
Field: WATTENBERG	City (SAP): GREELEY	County/Parish: WELD	State: COLORADO
Legal Description: NE SE-11-8N-88W-1739FSL-278FEL			
Contractor: Precision		Rig/Platform Name/Num: Precision 562	
Job BOM: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HB41307		Srvc Supervisor: Ryan Stevens	
Job			

Formation Name			
Formation Depth (MD)	Top	Bottom	
Form Type		BHST	
Job depth MD	19169ft	Job Depth TVD	7161
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	New	9.625	8.921	36	LTC	J-55	0	1834	1834	1834
Casing	New	5.5	4.778	20	BTC	P-110	0	19169	7161	7161
Open Hole Section			8.5				1834	19190	7161	7161

Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe						Top Plug	5.5	1	weath	
Float Shoe	5.5	1	Weath	19169		Bottom Plug	5.5	1	Weath	
Float Collar	5.5	1	Weath	19,118		SSR plug set				
Insert Float						Plug Container	5.5	1	HES	
Stage Tool						Centralizers				

Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Spacer III	Tuned Spacer III	40	bbl	11.5	3.8	23.8	4	1,403	
		147.42 lbm/bbl BARITE, BULK (100003681)								
		35.10 gal/bbl FRESH WATER								
		0.50 gal/bbl MUSOL A, 330 GAL TOTE - (790828)								
		0.50 gal/bbl DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003685)								

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Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
2	ElastiCem LEAD	ELASTICEM (TM) SYSTEM	1,045	sack	13.2	1.57	7.54	6	7,879	
0.15 %		FE-2 (100001615)								
0.30 %		SCR-100 (100003749)								
7.54 Gal		FRESH WATER								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	NeoCem	NeoCem TM	1,445	sack	13.2	2.04	9.77	7	14,117	
9.77 Gal		FRESH WATER								
0.08 %		SCR-100 (100003749)								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
4	MMCR Displacement	MMCR Displacement	40	bbl	8.34			10	1,880	
0.1250 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)								
0.50 gal/bbl		CLA-WEB - TOTE (101985045)								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
5	Displacement	Fresh Water	384	bbl	8.33			10	16,128	
Cement Left In Pipe		Amount	0 ft			Reason		Wet Shoe		
Mix Water:		pH 7	Mix Water Chloride: 200 ppm			Mix Water Temperature:		51 °F		
Cement Temperature:			Plug Displaced by: 8.34 lb/gal			Disp. Temperature:				
Plug Bumped?		Yes	Bump Pressure: 2,751 psi			Floats Held?		Yes		
Cement Returns:		95 bbl	Returns Density:			Returns Temperature:				
Comment 95 BBLS OF CEMENT BACK TO SURFACE. CALCULATED CEMENT BACK WAS 22 BBLS OF LEAD.										

2.0 Real-Time Job Summary

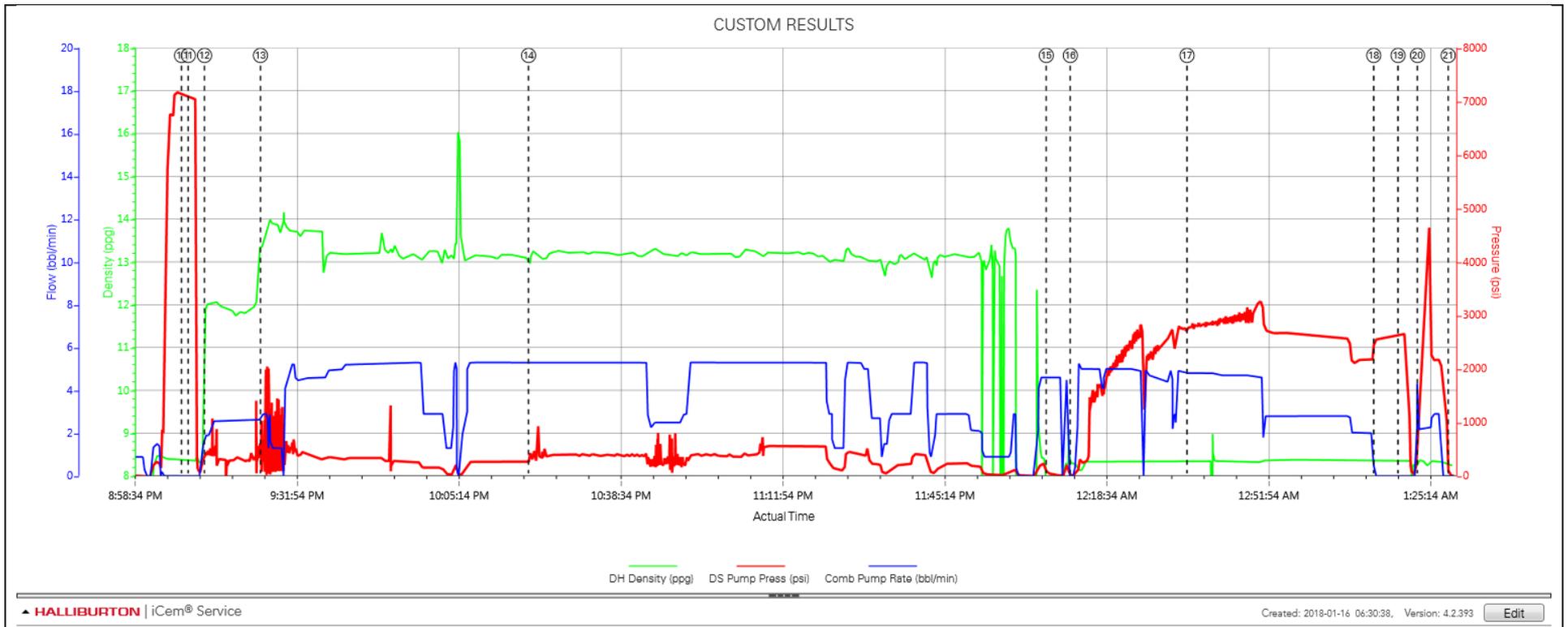
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	DS Pump Press <i>(psi)</i>	Comb Pump Rate <i>(bbl/min)</i>	Comments
Event	1	Call Out	Call Out	1/16/2018	04:30:00	USER				CREWCALLED OUT FOR JOB. CUSTOMER REQUESTED ON LOCATION TIME WAS 11:00. CREW PICKED UP PUP 116545460, PLUG CONTANER, CHEMICALS AND BULK TRUCKS FROM FORT LUPTON YARD
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/16/2018	08:50:00	USER				CREW DISCUSSED HAZARDS ALONG ROUTE OF TRAVEL
Event	3	Crew Leave Yard	Crew Leave Yard	1/16/2018	09:00:00	USER				STARTED JOURNEY MANAGMENT
Event	4	Arrive At Loc	Arrive At Loc	1/16/2018	10:45:00	USER				MEET WITH COMPANY REP. DISCUSS JOB PROCEDURES AND SAFTEY HAZARDS. 8.5 OH @ 19,190 5.5 20# CSG @ 19,169 9.625 36# SURFACE @ 1834. FRESH WATER DISPLACEMENT WITH THE FIRST 40 BBLS WITH MMCR
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	1/16/2018	11:00:00	USER				CREW SPOTTED EQUIPMENT AND DISCUSSED HAZARDS ASSOCIATED WITH RIG UP.
Event	6	Rig-Up Equipment	Rig-Up Equipment	1/16/2018	11:05:00	USER				CREW RIGGED UP PUMP AND BULK TRUCKS TO PERFORM JOB.
Event	7	Rig-Up Completed	Rig-Up Completed	1/16/2018	14:00:00	USER	0.08	-2.00	0.00	EQUIPMENT WAS RIGGED UP AND READY TO PERFORM JOB.
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	1/16/2018	19:30:00	USER	0.00	-6.00	0.00	MEET WITH RIG CREW AND DISCUSS JOB PROCEDURES AND JSA.
Event	9	Start Job	Start Job	1/16/2018	20:51:55	COM4				START RECORDING JOB DATA
Event	10	Test Lines	Test Lines	1/16/2018	21:08:36	COM4	8.38	7106.00	0.00	PRESSURE TEST LINES TO 6752 PSI. EKO TEST @ 909 5TH GEAR STALL AT 2750 PSI.
Event	11	Drop Bottom Plug	Drop Bottom Plug	1/16/2018	21:10:00	USER	8.36	7075.00	0.00	PLUG LEFT CONTAINER VERIFIED BY COMPANY REP.
Event	12	Pump Spacer 1	Pump Spacer 1	1/16/2018	21:13:21	COM4	12.01	414.00	1.90	PUMP 40 BBLS OF TUNED SPACER @ 11.5 PPG WITH DUAL SPACER B AND MUSOL. DENSITY VERIFIED BY PRESSURIZED MUD SCALES.

Event	13	Pump Lead Cement	Pump Lead Cement	1/16/2018	21:24:51	COM4	13.31	387.00	2.90	PUMP 1,045 SXS OF ELASTICEM @ 13.2 PPG YIELD 1.57 MIX WATER 7.54. CALCULATED 22 BBLS BACK TO SURFACE.
Event	14	Pump Tail Cement	Pump Tail Cement	1/16/2018	22:20:02	COM4				PUMP 1445 SXS OF NEOCEM @ 13.2 PPG YIELD 2.04 MIX WATER 9.77 DENSITY VERIFIED BY PRESSURIZED MUD SCALES.
Event	15	Shutdown	Shutdown	1/17/2018	00:06:36	COM4				SHUT DOWN TO DROP PLUG AND WASH PUMPS AND LINES.
Event	16	Drop Top Plug	Drop Top Plug	1/17/2018	00:11:33	COM4				PLUG LEFT CONTAINER VERIFIED BY COMPANY REP
Event	17	Pump Displacement	Pump Displacement	1/17/2018	00:35:34	COM4	8.35	2745.00	4.80	PUMP CALCULATED DISPLACEMENT OF 423 BBLS OF FRESH WATER. SAW CEMENT AT 328 BBLS AWAY. 95 BBLS OF CEMENT BACK TO SURFACE.CALCULATED WAS 22 BBLS BACK TO SURFACE.
Event	18	Bump Plug	Bump Plug	1/17/2018	01:14:00	COM4				BUMP PLUG @ 2,757 PSI. FINAL CIRCULATING PRESSURE @ 2257 PSI
Event	19	Other	Burst Plug	1/17/2018	01:19:00	USER	8.34	2656.00	0.00	BURST PLUG AND PUMP 6 BBLS WET SHOE. PLUG BURSTED AT 4,560 PSI.
Event	20	Check Floats	Check Floats	1/17/2018	01:23:00	USER	8.37	1552.00	2.20	CHECK FLOATS, 3 BBLS BACK ,FLOATS HELD
Event	21	End Job	End Job	1/17/2018	01:29:19	COM4				STOP RECORDING JOB DATA
Event	22	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	1/17/2018	01:45:00	USER				CREW DISCUSSED HAZARDS ASSOCIATED WITH RIGGING DOWN.
Event	23	Rig-Down Completed	Rig-Down Completed	1/17/2018	02:30:00	USER				ALL EQUIPMENT WAS RIGGED DOWN A STOED FOR TRAVEL.
Event	24	Crew Leave Location	Crew Leave Location	1/17/2018	03:15:00	USER				THANKS RYAN STEVENS AND CREW

3.0 Attachments

3.1 Custom Results – Job Chart with Events



3.2 Custom Results – Job Chart without Events

