

HALLIBURTON

iCem[®] Service

SRC ENERGY INC-EBUS

Date: Wednesday, December 27, 2017

Falken 4N-14C-S Production

Job Date: Thursday, December 21, 2017

Sincerely,

Justin Lansdale

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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 4N-14C-S** 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.

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 #: 3815895	Quote #:	Sales Order #: 0904511884
Customer: SYNERGY RESOURCES CORPORATION		Customer Rep: K Ford	
Well Name: FALKEN	Well #: 4N-14C-S	API/UWI #: 05-123-45124-00	
Field: WATTENBERG	City (SAP): GREELEY	County/Parish: WELD	State: COLORADO
Legal Description: NE SE-11-6N-66W-1679FSL-276FEL			
Contractor: PRECISION DRLG		Rig/Platform Name/Num: PRECISION 562	
Job BOM: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HB41307		Srvc Supervisor: Nicholas Roles	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	13258ft 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	1793	0	1793
Casing		5.5	4.778	20		P-110	0	13258	0	7168
Open Hole Section			8.5				1793	13278	1793	7168

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	5.5				Top Plug	5.5		HES
Float Shoe	5.5			13258	Bottom Plug	5.5		HES
Float Collar	5.5				SSR plug set	5.5		HES
Insert Float	5.5				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 Spacer III	Tuned Spacer III	40	bbl	11.5	3.8		4		
35.10 gal/bbl		FRESH WATER								
0.50 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
0.50 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)								
147.42 lbm/bbl		BARITE, BULK (100003681)								

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	ElastiCem Lead	ELASTICEM (TM) SYSTEM	1085	sack	13.2	1.57		8	7.54	
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/min	Total Mix Fluid Gal	
3	NeoCem	NeoCem TM	725	sack	13.2	2.04		8	9.77	
0.08 %		SCR-100 (100003749)								
9.77 Gal		FRESH WATER								
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	MMCR Displacement	MMCR Displacement	20	bbl	8.34			8		
0.50 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)								
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	Cla Web Displacement	Cla Web Displacement	291	bbl	8.33			8		
Cement Left In Pipe		Amount	0 ft		Reason			Wet Shoe		
Comment Got 12bbls cement to surface. Estimated TOT-6812'										

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comments
Event	1	Call Out	Call Out	12/21/2017	13:30:00	USER	Called out by Service Coordinator for O/L at 1800
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	12/21/2017	16:45:00	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	12/21/2017	17:00:00	USER	Journey Management prior to departure
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	12/21/2017	18:00:00	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	12/21/2017	18:15:00	USER	Discussed rigging up hazards and procedure according to HMS.
Event	6	Other	Other	12/21/2017	19:00:00	USER	Water test- PH-6, Chlor-0, Temp-65. Cement temp-70.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	12/21/2017	20:30:00	USER	Held safety meeting with all job associated personnel to discuss job procedure, hazards and stop work authority.
Event	8	Start Job	Start Job	12/21/2017	21:25:00	COM4	TD-13278', TP-13258' 5.5" 20#, WS Sub-13128', TVD-7168', OH-8.5", SURF-1793' 9.625" 36#, MUD-9.8#
Event	9	Test Lines	Test Lines	12/21/2017	21:30:06	COM4	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 5000psi. Pressure stabilized and held with no leaks
Event	10	Pump Spacer 1	Pump Spacer 1	12/21/2017	21:42:21	COM4	Pumped 40bbls 11.5# 3.8y 23.8g/s Tuned Spacer III with 20g Musol A, 20g Dual Spacer B and 10g D-Air at 4bpm 225psi.

Event	11	Drop Bottom Plug	Drop Bottom Plug	12/21/2017	21:49:57	USER	Dropped by HES supervisor, witnessed by company man.
Event	12	Pump Lead Cement	Pump Lead Cement	12/21/2017	21:50:41	COM4	Pumped 1085sks or 303bbls 13.2# 1.57y 7.54g/s Elasticem at 8bpm 485psi.
Event	13	Check Weight	Check weight	12/21/2017	21:53:30	COM4	Weight verified with pressurized mud scales.
Event	14	Check Weight	Check weight	12/21/2017	22:27:55	COM4	Weight verified with pressurized mud scales.
Event	15	Pump Tail Cement	Pump Tail Cement	12/21/2017	22:33:53	COM4	Pumped 725sks or 265bbls 13.2# 2.04y 9.77g/s Neocem at 8bpm 475psi.
Event	16	Check Weight	Check weight	12/21/2017	22:39:29	COM4	Weight verified with pressurized mud scales.
Event	17	Shutdown	Pressure Up Well	12/21/2017	23:10:01	USER	Shutdown, pumped 5bbls fresh water through pumps and lines to wash up.
Event	18	Drop Top Plug	Drop Top Plug	12/21/2017	23:24:01	COM4	Dropped by HES supervisor, witnessed by company man.
Event	19	Pump Displacement	Pump Displacement	12/21/2017	23:24:06	COM4	Pumped 291bbls fresh water with 5g MMCR in first 20bbls, 20g clayweb and 3# biocide throughout.
Event	20	Bump Plug	Bump Plug	12/22/2017	00:07:28	COM4	Slowed down to 3bpm at 270bbls away, final circulating pressure-2360psi, bump pressure-2780psi.
Event	21	Pressure Up Well	Pressure Up Well	12/22/2017	00:08:42	USER	Pumped fresh water to sheer at 4700psi, continued to pump 6bbls fresh water at 3bpm 2215psi.
Event	22	Check Floats	Check Floats	12/22/2017	00:12:43	USER	Released pressure and got 2bbls back to pump. Floats held.

Event	23	End Job	End Job	12/22/2017	00:14:32	COM4	Got 12bbbs cement to surface. Estimated TOT-6812'
Event	24	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	12/22/2017	00:15:00	USER	Discussed rigging down hazards and procedure according to HMS.
Event	25	Depart Location Safety Meeting	Depart Location Safety Meeting	12/22/2017	02:45:00	USER	Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit to drive.
Event	26	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	12/22/2017	03:00:00	USER	Pre journey management prior to departure.

3.0 Attachments

3.1 Job Chart



