

HALLIBURTON

iCem[®] Service

SRC ENERGY INC-EBUS

Date: Sunday, November 12, 2017

Falken 33C-9-L Production

Job Date: Saturday, November 04, 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 33C-9-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.

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 #: 3815857		Quote #:		Sales Order #: 0904398624				
Customer: SYNERGY RESOURCES CORPORATION				Customer Rep: Kent Priddy						
Well Name: FALKEN			Well #: 33C-9-L		API/UWI #: 05-123-45112-00					
Field: WATTENBERG		City (SAP): GREELEY		County/Parish: WELD		State: COLORADO				
Legal Description: NE SE-11-6N-66W-1814FSL-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		19027ft		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	1783	0	1783
Casing		5.5	4.778	20		P-110	0	19027	0	7283
Open Hole Section			8.5				1783	19048	1783	7283
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			19027		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		5		
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	1034	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	1435	sack	13.2	2.04		8	9.77
0.08 %		SCR-100 (100003749)							
9.71 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			10	
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	400	bbl	8.33			10	
1 gal/bbl		CLA-WEB - TOTE (101985045)							
Cement Left In Pipe		Amount	0 ft		Reason			Wet Shoe	
Comment 21 bbls of Cement back to surface. Estimated TOT 6257'									

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	11/4/2017	05:00:00	USER	Called out by Service Coordinator for O/L at 0600
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	11/4/2017	07:50:00	USER	Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit for duty.
Event	3	Depart Shop for Location	Depart Shop for Location	11/4/2017	08:00:00	USER	Journey Management prior to departure
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	11/4/2017	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	11/4/2017	09:15:00	USER	Discussed rigging up hazards and procedure according to HMS.
Event	6	Other	Test Water	11/4/2017	09:25:00	USER	Water test- PH-6, Chlor-0, Temp-60. Cement temp-70.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	11/4/2017	14:15:00	USER	Held safety meeting with all job associated personnel to discuss job procedure, hazards and stop work authority.
Event	8	Start Job	Start Job	11/4/2017	14:36:38	USER	TD-19048', TP-19027' 5.5" 20#, WS Sub-18916', TVD-7283', OH-8.5", SURF-1783' 9.625" 36#, MUD-9.6#
Event	9	Test Lines	Test Lines	11/4/2017	14:39:51	COM4	Pumped 5bbls fresh water to fill lines, closed manifold and performed 500psi k/o function test, proceeded to perform 5th gear stall at 1355psi, continued to bring pressure up to 5000psi. Pressure stabilized and held with no leaks
Event	10	Pump Spacer 1	Pump Spacer 1	11/4/2017	14:47:02	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 5bpm 337psi.
Event	11	Pump Lead Cement	Pump Lead Cement	11/4/2017	14:57:13	COM4	Pumped 1034sks or 289bbls 13.2# 1.57y

							7.54g/s Elasticem at 8bpm 680psi.
Event	12	Drop Bottom Plug	Drop Bottom Plug	11/4/2017	14:59:43	COM4	Dropped by HES supervisor, witnessed by company man.
Event	13	Check Weight	Check weight	11/4/2017	15:06:15	COM4	Weight verified with pressurized mud scales.
Event	14	Pump Tail Cement	Pump Tail Cement	11/4/2017	15:39:50	COM4	Pumped 1435sks or 521bbls 13.2# 2.04y 9.77g/s Neocem at 8bpm 820psi.
Event	15	Check Weight	Check Weight	11/4/2017	15:49:10	USER	Weight verified with pressurized mud scales.
Event	16	Check Weight	Check weight	11/4/2017	16:03:53	COM4	Weight verified with pressurized mud scales.
Event	17	Check Weight	Check weight	11/4/2017	16:25:01	COM4	Weight verified with pressurized mud scales.
Event	18	Shutdown	Shutdown	11/4/2017	16:52:46	COM4	Pumped 5bbls fresh water to clean through pumps and lines.
Event	19	Drop Top Plug	Drop Top Plug	11/4/2017	17:00:23	COM4	Dropped by HES supervisor, witnessed by company man.
Event	20	Pump Displacement	Pump Displacement	11/4/2017	17:00:26	COM4	Pumped 420bbls fresh water with 5g MMCR in first 20bbls, 20g clayweb and 20g biocide throughout.
Event	21	Bump Plug	Bump Plug	11/4/2017	17:53:39	COM4	Slowed down to 3bpm at 400bbls away, final circulating pressure-2590psi, bump pressure-2900psi.
Event	22	Other	Other	11/4/2017	18:03:00	USER	Pumped fresh water to shear at 3100psi, continued to pump 6bbls fresh water at 3bpm 3100psi.
Event	23	Other	Other	11/4/2017	18:05:45	COM4	Released pressure and got 3bbls back to pump. Floats held.
Event	24	End Job	End Job	11/4/2017	18:07:15	COM4	Got 21bbls cement to surface. Estimated TOT-6257'
Event	25	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	11/4/2017	18:15:00	USER	Discussed rigging down hazards and procedure according to HMS.
Event	26	Depart Location Safety Meeting	Depart Location Safety Meeting	11/4/2017	19:50:00	USER	Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit to drive.

Event	27	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	11/4/2017	20:00:00	USER	Pre journey management prior to departure.
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3.0 Attachments

3.1 Job Chart



