

HALLIBURTON

iCem[®] Service

SRC ENERGY INC-EBUS

Date: Monday, February 19, 2018

Falken 30N-14B-S Production

Job Date: Wednesday, January 10, 2018

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 30N-14B-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 #: 3815824		Quote #:		Sales Order #: 0904555462				
Customer: SYNERGY RESOURCES CORPORATION				Customer Rep: Caleb Ford						
Well Name: FALKEN			Well #: 30N-14B-S		API/UWI #: 05-123-45111-00					
Field: WATTENBERG		City (SAP): GREELEY		County/Parish: WELD		State: COLORADO				
Legal Description: NE SE-11-6N-66W-1724FSL-276FEL										
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 562						
Job BOM: 7523 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HB41307				Srv Supervisor: Luke Kosakewich						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		13410ft		Job Depth TVD		7100ft				
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	1850	0	1850
Casing		5.5	4.778	20		P-110	0	13393	0	7100
Open Hole Section			8.5				1850	13410	1850	7100
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe						Top Plug	5.5	1	HES	
Float Shoe	5.5			13393		Bottom Plug	5.5	1	HES	
Float Collar	5.5			13281		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 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		

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	1045	sack	13.2	1.57		8	7.54
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	776	sack	13.2	2.04		8	9.77
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	10	bbl	8.34			8	
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	284.8	bbl	8.33			8	
Cement Left In Pipe		Amount	0 ft		Reason			Shoe Joint	
Comment There were full returns throughout the job. Bumped the plug 500 psi. over 2,150 psi. at 3 bpm and held for 5 minutes. Finale pressure was 2,650 psi. Floats held. Got 2 bbls. of fluid back to the truck. Got 40 bbls. of spacer and 40 bbls. of cement to surface. Burst the plug at 4,560 psi. Pumped a 6 bbl. wet shoe. Estimated TOT is 5,859.									

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	1/9/2018	21:00:00	USER	Crew was called out at 21:00 for an on location time of 02:00.
Event	2	Depart Location Safety Meeting	Depart Location Safety Meeting	1/10/2018	00:15:00	USER	Crew held a pre journey safety meeting and JSA.
Event	3	Depart Shop for Location	Depart Shop for Location	1/10/2018	00:30:00	USER	Started journey management with dispatch and left location.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	1/10/2018	01:30:00	USER	Crew performed a site assessment and hazard hunt on location. Checked in with the customer and discussed the job procedures, rig up and well bore schematics to calculate the job. The rig was running casing.
Event	5	Other	Other	1/10/2018	01:40:00	USER	
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	1/10/2018	01:45:00	USER	The crew held a pre rig up safety meeting and JSA.
Event	7	Rig-Up Equipment	Rig-Up Equipment	1/10/2018	01:50:00	USER	The crew rigged up all lines, hoses and equipment for the job.
Event	8	Safety Meeting	Safety Meeting	1/10/2018	04:30:00	USER	All personnel on location held a pre cement job safety meeting and JSA.
Event	9	Start Job	Start Job	1/10/2018	04:46:07	COM4	Pumped 3 bbls. of fresh water to fill lines and establish circulation.
Event	10	Test Lines	Test Lines	1/10/2018	04:53:36	COM4	Pressure tested lines to 6,000 psi. with a 500 psi. electronic kick out test.
Event	11	Pump Spacer 1	Pump Spacer 1	1/10/2018	05:16:13	COM4	Pumped 40 bbls. of Tuned Spacer III with surfactants mixed at 11.5 ppg., Yield: 3.8ft3/sks, 23.8 gal/sks. Density was verified by pressurized scales.
Event	12	Shutdown	Shutdown	1/10/2018	05:28:41	USER	Shutdown the drop the bottom plug, batch,

							and weigh up cement.
Event	13	Drop Top Plug	Drop Top Plug	1/10/2018	05:32:22	USER	Dropped the top plug witnessed by the customer.
Event	14	Pump Lead Cement	Pump Lead Cement	1/10/2018	05:34:32	COM4	Pumped 292 bbls. (1045 sks.) of Elasticem mixed at 13.2 ppg., Yield: 1.57 ft3/sks, 7.54 gal/sks. Density was verified by pressurized scales.
Event	15	Check Weight	Check weight	1/10/2018	05:38:23	COM4	Cement weighed up at 13.2 ppg.
Event	16	Pump Tail Cement	Pump Tail Cement	1/10/2018	06:18:02	COM4	Pumped 282 bbls. (776 sks.) of Neocem mixed at 13.2 ppg. Yield: 2.04 ft3/sks, 9.77 gal/sks. Density was verified by pressurized scales.
Event	17	Check Weight	Check weight	1/10/2018	06:29:43	COM4	Cement weighed up at 13.2 ppg.
Event	18	Shutdown	Shutdown	1/10/2018	06:59:59	COM4	Finished mixing cement.
Event	19	Clean Lines	Clean Lines	1/10/2018	07:01:28	COM4	Washed pumps and lines until clean.
Event	20	Drop Top Plug	Drop Top Plug	1/10/2018	07:11:14	COM4	Dropped the top plug which was witnessed by the customer.
Event	21	Pump Displacement	Pump Displacement	1/10/2018	07:12:23	COM4	Pumped 294.8 bbls. of fresh water with MMCR in the first 10 bbls. and Biocide throughout the rest of displacement.
Event	22	Bump Plug	Bump Plug	1/10/2018	07:48:55	COM4	Bumped the plug 500 psi. over 2,150 psi. at 3 bpm. Finale pressure was 2,650 psi. Held pressure for 5 minutes. Pressure held. Got 40 bbls. of spacer and 40 bbls. of cement to surface. Estimated TOT 5,859'.
Event	23	Pressure Up Well	Pressure Up Well	1/10/2018	07:50:03	USER	Pressured up the well to 4,560 psi. to burst the plug. Pumped 6 bbls. for a wet shoe.

Event	24	Check Floats	Check Floats	1/10/2018	07:52:43	USER	Bled off pressure to check floats. Floats held. Got 2 bbls. of fluid back to the truck.
Event	25	End Job	End Job	1/10/2018	07:53:45	COM4	Washed pumps and lines until clean.
Event	26	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	1/10/2018	08:00:00	USER	Halliburton cement crew held a pre rig down safety meeting and JSA.
Event	27	Rig-Down Equipment	Rig-Down Equipment	1/10/2018	08:10:00	USER	Held a pre journey safety meeting with the crew.
Event	28	Depart Location Safety Meeting	Depart Location Safety Meeting	1/10/2018	09:45:00	USER	Started journey management with dispatch and left location.
Event	29	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	1/10/2018	10:00:00	USER	Washed pumps and lines until clean.

3.0 Attachments

3.1 Job Chart



