

HALLIBURTON

iCem[®] Service

SRC ENERGY INC-EBUS

Date: Friday, December 29, 2017

FALKEN 16N-9B-L PRODUCTION

Job Date: Monday, December 04, 2017

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 16N-9B-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 10 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 #: 3815823		Quote #:		Sales Order #: 0904464709					
Customer: SYNERGY RESOURCES CORPORATION				Customer Rep: KENT PRIDDY							
Well Name: FALKEN			Well #: 16N-9B-L			API/UWI #: 05-123-45120-00					
Field: WATTENBERG		City (SAP): GREELEY		County/Parish: WELD		State: COLORADO					
Legal Description: NE SE-11-8N-86W-1789FSL-278FEL											
Contractor: PRECISION DRLG					Rig/Platform Name/Num: PRECISION 562						
Job BOM: 7523 7523											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HB41307					Srcv Supervisor: Robert Davis						
Job											
Formation Name											
Formation Depth (MD)		Top 1801			Bottom			19002			
Form Type BHST											
Job depth MD		18979ft			Job Depth TVD						
Water Depth											
Perforation Depth (MD)		From			To			Wk Ht Above Floor 4			
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	1801	0	1801	
Casing		5.5	4.778	20		P-110	0	18979	0	0	
Open Hole Section			8.5				1801	19002	1801	7979	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	5.5			18979		Top Plug	5.5		HES		
Float Shoe	5.5					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 (100003865)									
0.50 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)									
147.42 lbm/bbl		BARITE, BULK (100003881)									

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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/min	Total Mix Fluid Gal	
2	ElastiCem Lead	ELASTICEM (TM) SYSTEM	1032	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)								
9.77 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	40	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	410	bbl	8.33			8		
0.0507 gal/bbl		CLA-WEB - TOTE (101985045)								
Cement Left In Pipe		Amount	7 ft		Reason			Shoe Joint		
Mix Water:		pH 7	Mix Water Chloride:		100 ppm	Mix Water Temperature:			70 °F °C	
Cement Temperature:		## °F °C	Plug Displaced by:		8.33 lb/gal kg/m3 XXXX	Disp. Temperature:			## °F °C	
Plug Bumped?		Yes	Bump Pressure:		2350-2900 psi MPa	Floats Held?			Yes	
Cement Returns:		10 bbl m3	Returns Density:		## lb/gal kg/m3	Returns Temperature:			## °F °C	
Comment BUMPED PLUG @ CALCULATED DISPLACEMENT, RUPTED PLUG @ 5312 PSI, FLOATS HELD 3 BBLs BACK, 40 BBLs OF SPACER AND 10 BBLs OF CEMENT RETURNS TO SURFACE										

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	12/3/2017	16:30:00	USER				CALLED OUT FROM EL ERNO OKLAHOMA
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	12/3/2017	20:00:00	USER				LEAVE YARD AFTER SAFTEY MEETING
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	12/3/2017	21:00:00	USER				ARRIVED ON LOCATION AND TALKED TO COMPANY MAN ABOUT JOB FIGURES AND THE SPOTTING OF OUR EQUIPMENT
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	12/3/2017	21:10:00	USER				ASSESSED LOCATION AN TOOK WATER SAMPLE
Event	5	Rig-Up Equipment	Rig-Up Equipment	12/3/2017	21:20:00	USER				SPOTTED EQUIPMENT AND RIGGED UP TO FLOOR RIG IS RUNNING CASING
Event	6	Other	Other	12/3/2017	21:30:00	USER				Water test=pH: 7____, Cl: _100____, temp _50____degrees Tannin-Lignin: _NEG.____; Sulfate: _200____
Event	7	Other	Other	12/3/2017	21:45:00	USER				Rig Circulation: ____ bbls Circulation Rate: ____ bbl/min Mud Density __10.1__ lb/gal Mud YP/PV: _____
Event	8	Other	Other	12/3/2017	22:00:00	USER				Spacer: _40____ bbl TOS _0____ Lead Cement: __288__ bbl, 1032____ sks, TOC_0____ Tail Cement: _521____ bbl, _1435__ sks, TOC_6210____ Displacement: __419__ bbICMT left in Pipe __7 FT____ Reason __WET SHOE____
Event	9	Other	Other	12/3/2017	23:00:00	USER				TD: __19002__, TP 18979____, SJ: __7__, OH: __8.5__, Casing: Size/Weight/Grade: __5.5/20#/P110____, Previous Casing Shoe: __1801____
Event	10	Rig-Up Completed	Rig-Up Completed	12/4/2017	04:15:00	USER	0.00	8.30	-5.00	RIG UP COMPLETE SAFETY MEETING WITH RIG HANDS AND HALLIBURTON ABOUT THE DANGERS OF OUR

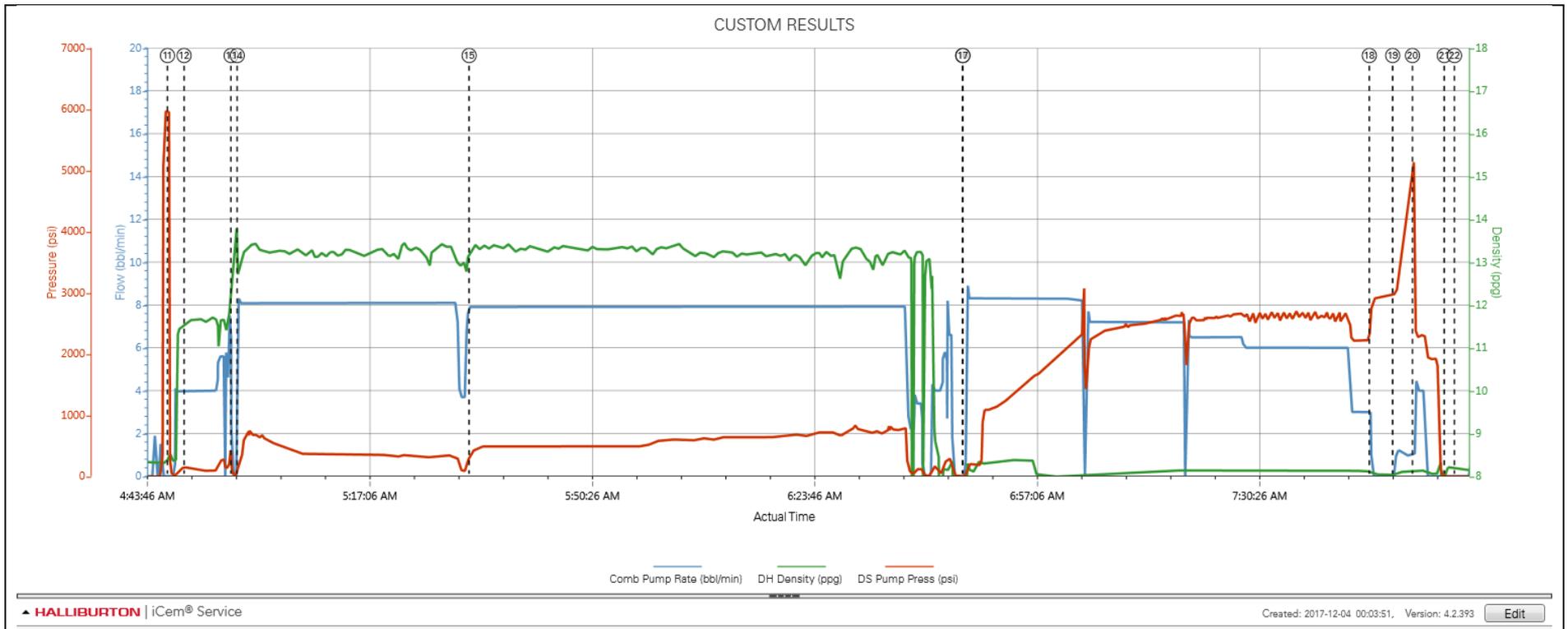
EQUIPMENT AND WENT OVER JOB FIGURES. READY TO TEST LINES

Event	11	Test Lines	Test Lines	12/4/2017	04:47:08	COM4	0.00	8.63	274.00	FLOOD LINES WITH 2 BBLS, LOW TEST TO 500 PSI, HIGH TEST TO 6000 PSI
Event	12	Pump Spacer 1	Pump Spacer 1	12/4/2017	04:49:37	COM4	4.00	11.56	133.00	TUNED SPACER W/ SURFACTANTS, 40 BBLS @ 11.5 PPG, YEILD @ 3.8, GAL/SK @ 23.8, PUMPED @ 4 BPM @ 150 PSI
Event	13	Drop Bottom Plug	Drop Bottom Plug	12/4/2017	04:56:39	COM4				WEATHERFORD BOTTOM PLUG
Event	14	Pump Lead Cement	Pump Lead Cement	12/4/2017	04:57:35	COM4	8.10	12.97	283.00	ELASTICEM, 1032 SKS @ 13.2 PPG, YEILD @ 1.57, GAL/SK @ 7.54, 1620.24 FT3, 288 BBLS, 185 BBLS OF WATER TO MIX, PUMPED @ 8 BPM @ 662 PSI HOL-6210, TOL-0
Event	15	Pump Tail Cement	Pump Tail Cement	12/4/2017	05:32:20	COM4				NEOCEM, 1435 SKS @ 13.2 PPG, YEILD @ 2.04, GAL/SK @ 9.77, 2927.4 FT3, 521 BBLS, 334 BBLS OF WATER TO MIX, HOT-12769 FT, TOT-6210 FT, PUMPED @ 8 BPM @ 500 PSI
Event	16	Drop Top Plug	Drop Top Plug	12/4/2017	06:46:17	COM4				WEATHERFORD TOP PLUG WET SHOE SYSTEM
Event	17	Pump Displacement	Pump Displacement	12/4/2017	06:46:20	COM4	0.00	-0.02	-6.00	419 BBLS, FRESH WATER/CLAYWEB/BIOCIDE, PUMPED @ 8 BPM @ 2200 PSI FOR THE FIRST 150 BBLS, THEN SLOWED TO 7 BPM @ 2600 PSI TILL 250 BBLS GONE THEN SLOWED TO 6 BPM FOR THE REST OF DISPLACEMENT @ 2500 PSI MAX PRESSURE WAS 3000 PSI DURING DISPLACEMENT, SLOWED RATE LAST 20 BBLS TO 3 BPM @ 2200 PSI TO BUMP PLUG, FULL RETURNS THOUGHOUT 40 BBLS OF SPACER AND 10 BBLS OF CEMENT RETURNS TO SURFACE.
Event	18	Bump Plug	Bump Plug	12/4/2017	07:47:13	COM4				500 OVER, BUMPED @ 2350 PSI TOOK TO 2900 PSI
Event	19	Other	Other	12/4/2017	07:50:43	COM4				RUPTURE WETR SHOE SUB, @ 5312 PSI
Event	20	Other	Other	12/4/2017	07:53:41	COM4				PUMPED 6 BBL WET SHOE @ 4 BPM @ 2301 PSI, CHECKED FLOATS, FLOATS HELD 3 BBLS BACK.
Event	21	End Job	End Job	12/4/2017	07:58:28	COM4				
Event	22	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig-Down	12/4/2017	08:00:00	USER	0.00	8.17	-7.00	SAFETY MEETING OVER RIGGING DOWN
Event	23	Rig-Down Equipment	Rig-Down Equipment	12/4/2017	08:15:00	USER				RIG DOWN EQUIPMENT AND HOSES

Event	24	Rig-Down Completed	Rig-Down Completed	12/4/2017	09:00:00	USER	RIG DOWN COMPLETE
Event	25	Safety Meeting - Departing Location	Safety Meeting - Departing Location	12/4/2017	09:15:00	USER	SAFETY MEETING OVER DEPARTURE AND JOURNEY HOME
Event	26	Depart Location for Home	Depart Location for Home	12/4/2017	09:30:00	USER	LEAVE LOCATION

3.0 Attachments

3.1 Custom Results – Job Chart with Events



3.2 Custom Results – Job Chart without Events

