

HALLIBURTON

iCem[®] Service

SYNERGY RESOURCES CORPORATION

Date: Wednesday, August 02, 2017

Leffler 41N-23C-L Production

Job Date: Tuesday, July 25, 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 **Leffler 41N-23C-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 36 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 [Ft. Lupton]

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 359915	Ship To #: 3800300	Quote #:	Sales Order #: 0904182967
Customer: SYNERGY RESOURCES CORPORATION		Customer Rep: Kevin Brakovec	
Well Name: LEFFLER	Well #: 41N-23C-L	API/UWI #: 05-123-44829-00	
Field: WATTENBERG	City (SAP): GREELEY	County/Parish: WELD	State: COLORADO
Legal Description: SE NE-21-6N-66W-1901FNL-275FEL			
Contractor: PRECISION DRLG		Rig/Platform Name/Num: PRECISION 562	
Job BOM: 7523 7523			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HB41307		Srvc Supervisor: Vaughn Oteri	
Job			

Formation Name			
Formation Depth (MD)	Top	Bottom	
Form Type	BHST		
Job depth MD	17745ft	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	1797	0	1797
Casing		5.5	4.778	20		P-110	0	17724	0	7105
Open Hole Section			8.5				1797	17745	1797	7105

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe	5.5				Top Plug	5.5	1	Weatherford	
Float Shoe	5.5			17724	Bottom Plug	5.5	1	Weatherford	
Float Collar	5.5			17620	SSR plug set	5.5			
Insert Float	5.5				Plug Container	5.5	1	HES	
Stage Tool	5.5				Centralizers	5.5			

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		4		
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	
2	ElastiCem Lead	ELASTICEM (TM) SYSTEM	1011	sack	13.2	1.57		8	7.52	

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Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	NeoCem	NeoCem TM	1259	sack	13.2	2.09		8	10.08	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
4	MMCR Displacement	MMCR Displacement	20	bbl	8.34			8		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
5	Cla Web Displacement	Cla Web Displacement	369	bbl	8.33			8		
0.0549 gal/bbl		CLA-WEB - TOTE (101985045)								
Cement Left In Pipe		Amount	95 ft		Reason			Shoe Joint		
Comment 36bbl of cement back to surface										

2.0 Real-Time Job Summary

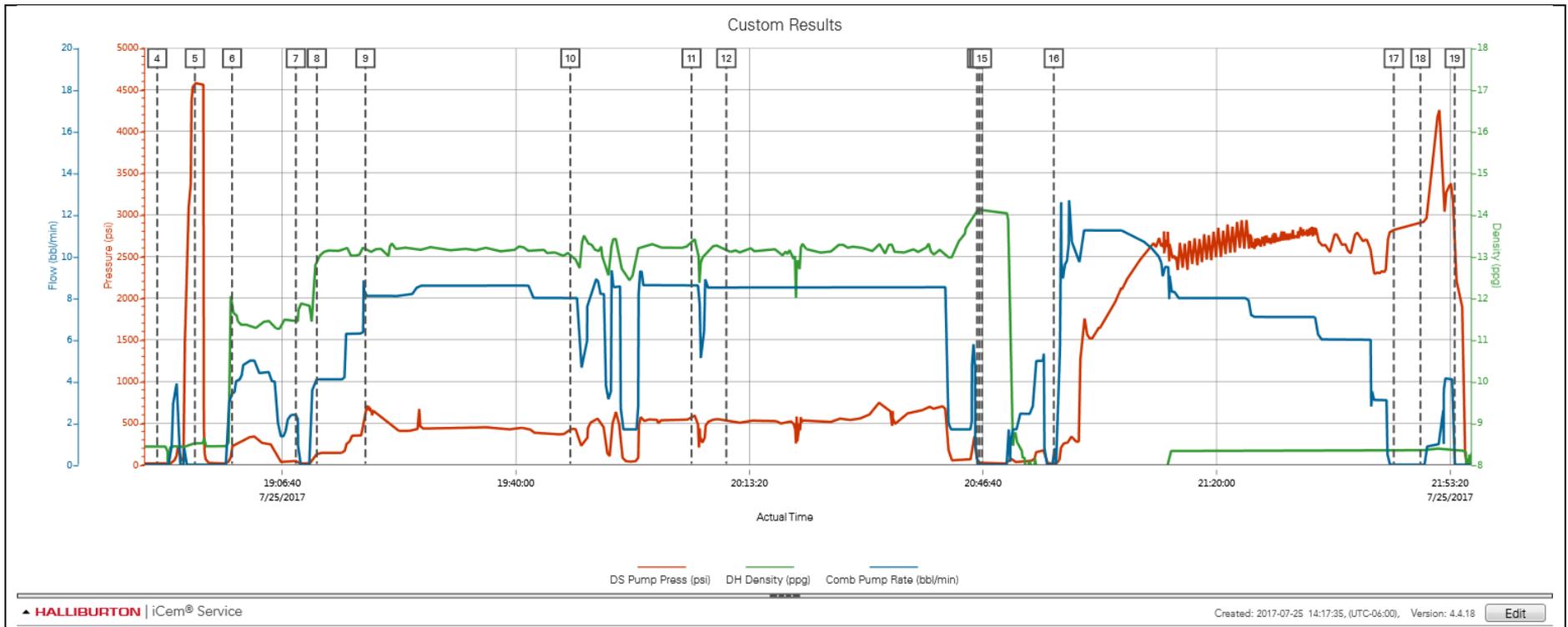
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Comments
Event	1	Call Out	Call Out	7/25/2017	08:00:00	USER				Call out from ARC hub
Event	2	Arrive At Loc	Arrive At Loc	7/25/2017	13:00:00	USER				Arrived on location met with company rep to discuss job process and concerns
Event	3	Other	Other	7/25/2017	13:10:10	USER				TD-17745 TP-17724 FC-17620 Surf-1797 Mud 9.7ppg Casing-5.5 20#
Event	4	Start Job	Start Job	7/25/2017	18:48:48	COM4	17.00	8.44	0.00	Hold pre-job safety meeting with all hands on location to discuss job process and hazards
Event	5	Test Lines	Test Lines	7/25/2017	18:54:11	COM4	4580.00	8.51	0.00	Pressure tested pumps and lines with fresh water 4604psi
Event	6	Pump Spacer 1	Pump Spacer 1	7/25/2017	18:59:30	COM4	211.00	11.65	3.40	Mixed 40bbl of 11.5ppg Tuned spacer III at 4.0bpm
Event	7	Drop Bottom Plug	Drop Bottom Plug	7/25/2017	19:08:36	COM4	46.00	11.46	2.40	Release plug witnessed by company rep
Event	8	Pump Lead Cement	Pump Lead Cement	7/25/2017	19:11:36	COM4	130.00	12.91	4.10	Mixed 1011sks or 282bbl of 13.2ppg Y-1.57 G/sk-7.53 ElastiCem at 8.0bpm 430psi
Event	9	Check Weight	Check weight	7/25/2017	19:18:32	COM4	688.00	13.17	8.10	Confirmed weight on scales
Event	10	Pump Tail Cement	Pump Tail Cement	7/25/2017	19:47:46	COM4	438.00	13.05	8.00	Mixed 1259sks or 468bbl of 13.2ppg y-2.08 G/sk-10.08 NeoCem at 8.0bpm 520psi
Event	11	Check Weight	Check weight	7/25/2017	20:05:04	COM4	586.00	13.37	8.60	Confirmed weight on scales
Event	12	Check Weight	Check weight	7/25/2017	20:10:02	COM4	527.00	13.13	8.50	Confirmed weight on scales
Event	13	Shutdown	Shutdown	7/25/2017	20:45:49	COM4	62.00	14.13	0.00	
Event	14	Clean Lines	Clean Lines	7/25/2017	20:46:09	COM4	23.00	14.13	0.00	Washed pumps and lines with fresh water
Event	15	Drop Top Plug	Drop Top Plug	7/25/2017	20:46:31	COM4	17.00	14.12	0.00	Released plug witnessed by company rep
Event	16	Pump Displacement	Pump Displacement	7/25/2017	20:56:46	COM4	12.00	7.88	0.00	Pumped 389bbl of Fresh water to displace cement
Event	17	Bump Plug	Bump Plug	7/25/2017	21:45:17	COM4	2816.00	8.35	0.00	Bumped plug 500 psi over final pump pressure

Event	18	Pressure Up Well	Pressure Up Well	7/25/2017	21:49:05	COM4	2903.00	8.35	0.00	Pressure up plug to open wet shoe sub and pump 6bbl
Event	19	Other	Other	7/25/2017	21:53:58	COM4	2621.00	8.35	0.00	Released pressure back to pump truck to check floats, floats held good 2.5bbl back
Event	20	End Job	End Job	7/25/2017	22:00:22	COM4				36bbl of cement back to surface

3.0 Attachments

3.1 Custom Results – Job Chart with Events



3.2 Custom Results – Job Chart with Events

