

HALLIBURTON

iCem[®] Service

SYNERGY RESOURCES CORPORATION

Date: Monday, February 22, 2016

SRC Vista 43-2C

Production

Job Date: Friday, February 19, 2016

Sincerely,
Lauren Roberts

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **SRC Vista 43-2C** 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.

20 bbls of cement 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]

The Road to Excellence Starts with Safety

Sold To #: 359915		Ship To #: 3700826		Quote #:		Sales Order #: 0903127490					
Customer: SYNERGY RESOURCES CORPORATION						Customer Rep: Sean Devereaux					
Well Name: SRC VISTA				Well #: 43-2C		API/UWI #: 05-123-41054-00					
Field: WATTENBERG		City (SAP): BERTHOUD		County/Parish: WELD			State: COLORADO				
Legal Description: NW SW-2-4N-68W-2183FSL-254FWL											
Contractor: PRECISION DRLG					Rig/Platform Name/Num: PRECISION 462						
Job BOM: 7523											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199					Srvc Supervisor: Vaughn Oteri						
Job											
Formation Name											
Formation Depth (MD)		Top			Bottom						
Form Type					BHST						
Job depth MD		11700ft			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	1638		1638	
Casing		5.5	4.892	17		P-110	0	11682	0		
Open Hole Section			8.5				1638	11700	1638		
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			11682		Bottom Plug	5.5	1	Weatherford		
Float Collar	5.5			11588		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	3.86		6	

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	Lead ElastiCem	ELASTICEM (TM) SYSTEM	1015	sack	13.2	1.57		6	7.51	
7.51 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	Tail EconoCem	ECONOCEM (TM) SYSTEM	761	sack	13.5	1.65		4	7.86	
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					
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	Water	Water	230	bbl	8.33					
Cement Left In Pipe		Amount	94 ft		Reason			Shoe Joint		
Comment 20bbl 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	PS Pump Press (psi)	DH Density (ppg)	PS Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	2/19/2016	03:00:00	USER				Call out from ARC hub
Event	2	Arrive At Loc	Arrive At Loc	2/19/2016	09:30:00	USER				Requested on location 1000 Arrived on location@0930 met with company rep to discuss job process and concerns advised they had about 30joints left to run
Event	3	Other	Well info	2/19/2016	09:35:00	USER				Well info Td 11700 TP11682 FC 11588 SURF 1638 MUD 10.5 TOE 11542
Event	4	Start Job	Start Job	2/19/2016	15:19:06	COM4				Held pre-job safety meeting with all hands on location to discuss job process and hazards
Event	5	Test Lines	Test Lines	2/19/2016	15:21:31	COM4	91.00	8.53	0.00	Pressure tested pumps and lines found no leaks and pressure held well
Event	6	Pump Spacer 1	Pump Spacer 1	2/19/2016	15:28:37	COM4	57.00	8.54	0.00	Pumped 25bbl of fresh water with red tracer dye
Event	7	Check Weight	Check weight	2/19/2016	15:29:32	COM4	353.00	8.30	2.00	Confirmed weight on scales
Event	8	Pump Spacer 2	Pump Spacer 2	2/19/2016	15:39:38	COM4	408.00	9.06	3.00	Mixed 40bbl of 11.5ppg tuned spacer at 5.0bpm 341psi
Event	9	Drop Bottom Plug	Drop Bottom Plug	2/19/2016	15:47:05	COM4	332.00	11.44	3.00	Released plug witnessed by company rep
Event	10	Check Weight	Check weight	2/19/2016	15:51:29	COM4	261.00	11.40	0.00	Confirmed weight on scales
Event	11	Pump Lead Cement	Pump Lead Cement	2/19/2016	15:53:20	COM4	411.00	12.01	1.20	Mixed 283bbl of 13.2ppg Y1.57 G/SK7.51 of ElastiCem at 8.0bpm 448psi
Event	12	Pump Tail Cement	Pump Tail Cement	2/19/2016	16:31:13	COM4	265.00	13.02	8.00	Mixed 223bbl of 13.5ppg Y1.65 G/SK7.86 of EconoCem at 8.0bpm 273psi
Event	13	Check Weight	Check weight	2/19/2016	16:36:26	COM4	304.00	13.47	8.00	Confirm weight on scales
Event	14	Shutdown	Shutdown	2/19/2016	17:02:59	COM4	79.00	13.91	0.60	
Event	15	Drop Plug	Drop Plug	2/19/2016	17:03:23	COM4	13.00	14.72	0.00	Released plug witnessed by company rep
Event	16	Pump Displacement	Pump Displacement	2/19/2016	17:13:11	COM4	9.00	8.00	0.00	Pumped 270bbl of water with MMCR in first 40 230bbl of biocide

Event	17	Displ Reached Cmnt	Displ Reached Cmnt	2/19/2016	17:16:35	COM4	772.00	8.34	11.00	Caught cement
Event	18	Bump Plug	Bump Plug	2/19/2016	17:56:02	COM4	2719.00	8.44	0.00	Bumped plug 500psi over final pump pressure (lift2170 final 2710)
Event	19	Other	Other	2/19/2016	18:02:00	COM4	2839.00	8.44	0.00	Released pressure back to pump truck to check floats 2.5bbl back floats held good
Event	20	End Job	End Job	2/19/2016	18:04:35	COM4	27.00	8.42	0.00	20bbl of cement back to surface totc 6200.84'
Event	21	Other	Water info	2/19/2016	18:22:27	USER				Ph7 CL0 temp 50

3.0 Attachments

3.1 Case 1-Custom Results.png



