HALLIBURTON

iCem® Service

SYNERGY RESOURCES CORPORATION

Date: Thursday, April 14, 2016

Fagerberg 36N-7B-M

Production
Job Date: Thursday, April 07, 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 **Fagerberg 36N-7B-M** 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 bbl. 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 #:** 3730078	**Quote #:**	**Sales Order #:** 0903226205
Customer: SYNERGY RESOURCES CORPORATION		**Customer Rep:** Sean Devereaux	
Well Name: Fagerberg	**Well #:** 36N 7B-M		**API/UWI #:**
Field:	**City (SAP):** EATON	**County/Parish:** WELD	**State:** COLORADO
Legal Description:			
Contractor: PRECISION DRLG		**Rig/Platform Name/Num:** PRECISION 462	
Job BOM: 7523			
Well Type: GAS			
Sales Person: HALAMERICA\HX38199		**Srvc Supervisor:** Vaughn Oteri	

Job

Formation Name				
Formation Depth (MD)	**Top**		**Bottom**	
Form Type			**BHST**	
Job depth MD	15379ft		**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	1740	0	1740
Casing		5.5	4.892	17		P-110	0	15359		
Open Hole Section			8.5				1740	15379		

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			15359		**Bottom Plug**	5.5	1	Weatherford
Float Collar	5.5			15262		**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 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	1002	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	1300	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/ w clay web	Water/w clay web	314	bbl	8.33				

Cement Left In Pipe	**Amount**	93 ft	Reason	**Shoe Joint**

Comment 20bbl of cement back to surface. Hotc-9308.19 Totc-6050.81

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	4/6/2016	12:00:00	USER				Call out from ARC hub
Event	2	Arrive At Loc	Arrive At Loc	4/6/2016	20:30:00	USER				Requested on location @2100 Arrived on location @2030 met with company rep to discuss job process and concerns advised that they had one full rack of casing left to run
Event	3	Other	Well info	4/6/2016	20:31:00	USER				Casing 5.5 17# TD-15379 TP-15359 FC-15262 Surf 9.625 36# 1740 Mud 10.1 OH-8.5
Event	4	Other	Water info	4/6/2016	20:32:00	USER				Temp-56.3 PH-6 Cl-0
Event	5	Check Weight	Check weight	4/7/2016	03:43:46	COM4	1.00	8.56	0.00	Confirm weight on scales
Event	6	Test Lines	Test Lines	4/7/2016	03:54:24	COM4	74.00	8.30	0.00	Pressure tested pumps and lines found no leaks and pressure held good
Event	7	Pump Spacer 1	Pump Spacer 1	4/7/2016	03:56:29	COM4	35.00	8.28	0.00	Pumped 10bbl of fresh water with red tracer dye at 3bpm 359psi
Event	8	Pump Spacer 2	Pump Spacer 2	4/7/2016	04:00:45	COM4	370.00	8.58	3.00	Mixed 40bbl of 11.5ppg Tuned Spacer III at 6.0bpm 500psi
Event	9	Pump Lead Cement	Pump Lead Cement	4/7/2016	04:06:37	COM4	417.00	12.88	6.00	Mixed 1002sks or 280bbl of 13.2ppg Y-1.57 G/SK-7.51 ElastiCem at 8.0bpm 500psi
Event	10	Check Weight	Check weight	4/7/2016	04:10:30	COM4	578.00	13.52	8.00	Confirm weight on scales
Event	11	Pump Tail Cement	Pump Tail Cement	4/7/2016	04:44:34	COM4	244.00	13.33	6.00	Mixed 1300sks or 382bbl of 13.5ppg Y-1.65 G/SK-7.86 ElastiCem at 8.0bpm 330psi
Event	12	Check Weight	Check weight	4/7/2016	04:45:40	COM4	392.00	13.41	8.00	Confirm weight on scales
Event	13	Shutdown	Shutdown	4/7/2016	05:36:43	COM4	83.00	1.76	0.00	
Event	14	Clean Lines	Clean Lines	4/7/2016	05:36:51	COM4	45.00	0.34	0.00	Washed pumps and lines with fresh water
Event	15	Drop Bottom Plug	Drop Bottom Plug	4/7/2016	05:44:37	COM4	8.00	-0.14	0.00	Released top plug witnessed by company rep
Event	16	Pump Displacement	Pump Displacement	4/7/2016	05:45:01	COM4	4.00	2.53	0.00	Pumped 354bbl of fresh water at 8.0bpm to displace cement

Event	17	Displ Reached Cmnt	Displ Reached Cmnt	4/7/2016	05:48:59	COM4	694.00	8.08	12.00	Caught cement
Event	18	Bump Plug	Bump Plug	4/7/2016	06:33:17	COM4	2901.00	8.45	0.00	Bumped plug 500psi over final pump pressure
Event	19	Pressure Up Well	Pressure Up Well	4/7/2016	06:35:23	COM4	2968.00	8.44	0.00	Pressure up well for 15min
Event	20	Other	Other	4/7/2016	06:46:09	COM4	3188.00	8.42	0.00	Release pressure back to pump truck to check floats, 4bbl back floats held good
Event	21	End Job	End Job	4/7/2016	06:50:36	COM4				20bbl of cement back to surface

3.0 Attachments

3.1 Case 1-Custom Results.png