

HALLIBURTON

iCem[®] Service

SYNERGY RESOURCES CORPORATION

For:

Date: Monday, July 25, 2016

Fagerberg 6N-7C-M

Job Date: Thursday, July 14, 2016

Sincerely,

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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 6N-7C-M** cement **Surface** 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 [Ft. Lupton]

Job Times

	Date	Time	Time Zone
Requested Time On Location:	07/14/2016	2130	MTN
Called Out Time:	07/13/2016	1500	MTN
Arrived On Location At:	07/13/2016	2030	MTN
Job Started At:	07/14/2016	0113	MTN
Job Completed At:	07/14/2016	0236	MTN
Departed Location At:	07/14/2016	0300	MTN

The Road to Excellence Starts with Safety

Sold To #: 359915		Ship To #: 3741131		Quote #:		Sales Order #: 0903417444					
Customer: SYNERGY RESOURCES CORPORATION				Customer Rep: Lovel Young							
Well Name: FAGERBERG			Well #: 6N-7C-M		API/UWI #: 05-123-43182-00						
Field: WATTENBERG		City (SAP): EATON		County/Parish: WELD		State: COLORADO					
Legal Description: SW SW-12-6N-66W-1331FSL-235FWL											
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 462							
Job BOM: 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HB71271				Srv Supervisor: Vaughn Oteri							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		1765ft		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	3	16	15.376	55			0	40	0	40	
Casing		9.625	8.921	36			0	1750	0	1750	
Open Hole Section			13.5				40	1765	40	1765	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	9.625					Top Plug	9.625	1	HES		
Float Shoe	9.625			1750		Bottom Plug	9.625	0	HES		
Float Collar	9.625			1704		SSR plug set	9.625	0	HES		
Insert Float	9.625					Plug Container	9.625	1	HES		
Stage Tool	9.625					Centralizers	9.625	0	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	Mud Flush III (Powder)	Mud Flush III			20	bbl	8.4				
42 gal/bbl		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
2	SwiftCem B2	SWIFTCEM (TM) SYSTEM	555	sack	13.4	1.78		4	9.45
9.42 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	Displacement	Displacement	131	bbl	8.33				
Cement Left In Pipe		Amount	43 ft		Reason			Shoe Joint	
Comment 16bbl of cement back									

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	7/13/2016	15:00:00	USER				Cal out from ARC hub
Event	2	Arrive at Rig	Arrive at Rig	7/13/2016	20:30:00	USER				Requested on location @2130 Arrived on location @2030 met with company rep to discuss job process and concerns
Event	3	Other	Other	7/13/2016	20:31:00	USER				TD-1765 TP-1750 FC-1704 9.65 36# OH-13.5
Event	4	Other	Other	7/14/2016	01:13:11	COM4	0.00	7.72	0.00	Prime pumps and lines with fresh water
Event	5	Check Weight	Check weight	7/14/2016	01:16:37	COM4				Confrim weight on scales 13.4ppg
Event	6	Test Lines	Test Lines	7/14/2016	01:16:48	COM4	4250.00	8.31	0.00	Pressure tested pumps and lines found no leaks and pressure held good
Event	7	Pump Spacer 1	Pump Spacer 1	7/14/2016	01:21:18	COM4	41.00	8.32	4.00	Pumped 10bbl of Fresh water with red tracer dye @4.0bpm 75psi
Event	8	Pump Spacer 2	Pump Spacer 2	7/14/2016	01:24:13	COM4	90.00	8.26	4.00	Mixed 20bbl of mud flush @4.0bpm 89psi
Event	9	Pump Cement	Pump Cement	7/14/2016	01:29:42	COM4	240.00	13.41	8.00	Mixed 555sks or 175bbl of 13.4ppg Y-1.78 g/sk-9.45 Swiftcem @8bpm 324psi
Event	10	Shutdown	Shutdown	7/14/2016	01:54:57	COM4				
Event	11	Drop Top Plug	Drop Top Plug	7/14/2016	01:56:43	COM4				Released plug witnessed by company rep
Event	12	Pump Displacement	Pump Displacement	7/14/2016	01:56:46	COM4	250.00	8.33	8.00	Pumped 131bbl of fresh water to displace cement
Event	13	Displ Reached Cmnt	Displ Reached Cmnt	7/14/2016	02:07:00	COM4	203.00	8.34	3.00	Caught cement 60bbl away
Event	14	Bump Plug	Bump Plug	7/14/2016	02:21:23	COM4	1105.00	8.41	0.00	Bumped plug 500 psi over final pump pressure
Event	15	Other	Other	7/14/2016	02:36:49	COM4				Released pressure back to pump truck to check floats, floats held good
Event	16	End Job	End Job	7/14/2016	02:36:57	COM4				16bbl of cement back to surface

3.0 Attachments

3.1 Case 1-Custom Results.png



