

HALLIBURTON

iCem[®] Service

SYNERGY OIL & GAS LP

Date: Monday, April 17, 2017

Synergy Hood 36C-22-M Production

Job Date: Sunday, April 09, 2017

Sincerely,

Bryce Hinsch

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Hood 36C-22-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.

Approximately 30 bbls 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 #: 3786337		Quote #:		Sales Order #: 0903953303				
Customer: SYNERGY RESOURCES CORPORATION				Customer Rep: Kalib						
Well Name: HOOD			Well #: 36C-22-M			API/UWI #: 05-123-44377-00				
Field: WATTENBERG		City (SAP): GREELEY		County/Parish: WELD		State: COLORADO				
Legal Description: SE SE-20-6N-66W-505FSL-1122FEL										
Contractor: Precision				Rig/Platform Name/Num: Precision 562						
Job BOM: 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA/HB41307				Srvc Supervisor: Jefferson Bone						
Job										
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	1779	0	1779
Casing		5.5	4.778	20		P-110	0	15339	0	7194
Open Hole Section			8.5				1779	15339	1767	7194
Tools and Accessories										
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	3.75		6		
	0.30 gal/bbl	DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
	0.30 gal/bbl	MUSOL A, 330 GAL TOTE - (790828)								
	149.34 lbm/bbl	BARITE, BULK (100003681)								
	35.60 gal/bbl	FRESH WATER								
2	ElastiCem Lead	ELASTICEM (TM) SYSTEM	1019	sack	13.2	1.57		6	7.52	
	7.52 Gal	FRESH WATER								
3	NeoCem Tail	NeoCem TM	990	sack	13.2	2.09		4	10.08	
	10.08 Gal	FRESH WATER								
	0.35 %	SCR-100 (100003749)								

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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/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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
5	Cla Web Displacement	Cla Web Displacement	297	bbl	8.33				
0.0571 gal/bbl		CLA-WEB - BULK (101985043)							
Plug Bumped?		Yes	Bump Pressure:		2100 psi	Floats Held?		Yes	
Cement Returns:		30 bbl							
Comment 30bbls 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 (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	4/9/2017	06:00:00	USER				Call Out
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	4/9/2017	12:00:00	USER				Arrive at Location. Held safety meeting prior to rigging up and spotting equipment.
Event	3	Start Job	Start Job	4/9/2017	16:21:39	COM4	3.00	8.37	0.00	Start Job
Event	4	Test Lines	Test Lines	4/9/2017	17:19:28	COM4	1207.00	8.39	0.00	Test Lines to 5000psi
Event	5	Pump Spacer 1	Pump Spacer 1	4/9/2017	17:24:34	COM4	41.00	10.97	2.70	Pumped 40bbls of Tuned Spacer at 11.5ppg with Surfactants.
Event	6	Drop Bottom Plug	Drop Bottom Plug	4/9/2017	17:43:00	USER	2.00	11.74	0.00	Drop Bottom Plug
Event	7	Pump Lead Cement	Pump Lead Cement	4/9/2017	17:44:36	COM4	2.00	11.73	0.00	Pumped 1019sks(285bbls) of 13.2ppg 1.57y 7.52w Elasticem cement.
Event	8	Pump Tail Cement	Pump Tail Cement	4/9/2017	18:35:30	COM4	301.00	13.11	6.00	Pumped 990sks(369 bbls) of 13.2ppg 2.09y 10.08w NeoCem Cement.
Event	9	Shutdown	Shutdown	4/9/2017	19:40:56	COM4	82.00	13.56	0.00	Shutdown and clean lines.
Event	10	Drop Top Plug	Drop Top Plug	4/9/2017	19:53:33	COM4	2.00	8.20	0.00	Drop Top Plug.
Event	11	Pump Displacement	Pump Displacement	4/9/2017	19:54:16	COM4	0.00	8.20	0.00	Pumped 337bbls of H2O. First 40 with MMCR and the rest with Biocide.
Event	12	Bump Plug	Bump Plug	4/9/2017	20:46:11	COM4	2751.00	8.37	0.00	Bump Plug at 2100psi
Event	13	Other	Casing Test	4/9/2017	20:46:25	COM4	2758.00	8.36	0.00	Pressure up to 2600psi and held for 10 mins

Event	14	Check Floats	Check Floats	4/9/2017	20:58:00	USER	44.00	8.34	0.00	Check Floats. 3.5bbls back
Event	15	Other	Shear Plug and pump wet shoe	4/9/2017	21:00:12	COM4	2040.00	8.35	1.90	Sheared Plug @ 2600psi. Pumped 6bbls for wet shoe.
Event	16	End Job	End Job	4/9/2017	21:05:51	COM4				End Job
Event	17	Depart Location	Depart Location	4/9/2017	23:00:00	USER				Depart Location. Held safety meeting prior to rigging down and spotting equipent.

3.0 Attachments

3.1 Case 1-Custom Results.png

