

HALLIBURTON

iCem[®] Service

SYNERGY OIL & GAS LP

United States of America, COLORADO

Date: Monday, April 24, 2017

Synergy Hood 14N-22B-M Production

Job Date: Friday, April 14, 2017

Sincerely,

Bryce Hinsch

Legal Notice

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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 14N-22B-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 17 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 #: 3786335		Quote #:		Sales Order #: 0903965607					
Customer: SYNERGY RESOURCES CORPORATION				Customer Rep: Tim Jones							
Well Name: HOOD			Well #: 14N-22B-M			API/UWI #: 05-123-44375-00					
Field: WATTENBERG		City (SAP): GREELEY		County/Parish: WELD		State: COLORADO					
Legal Description: SE SE-20-6N-66W-525FSL-1122FEL											
Contractor: Precision					Rig/Platform Name/Num: Precision 562						
Job BOM: 7523											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HB41307					Srvc Supervisor: Steven Markovich						
Job											
Formation Name											
Formation Depth (MD)		Top			Bottom						
Form Type					BHST						
Job depth MD		15170ft			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	1776	0	0	
Casing		5.5	4.778	20		P-110	0	15157	0	0	
Open Hole Section			8.5				1776	15173	1776	15173	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	5.5			15157		Top Plug	5.5		HES		
Float Shoe	5.5					Bottom Plug	5.5		HES		
Float Collar	5.5					SSR plug set	5.5		HES		
Insert Float	5.5					Plug Container	5.5		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 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			
0.50 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)									
0.50 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)									
149.34 lbm/bbl		BARITE, BULK (100003681)									
35.60 gal/bbl		FRESH WATER									

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Cementing Job Summary

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	ElastiCemLead	ELASTICEM (TM) SYSTEM	1002	sack	13.2	1.57		6	7.52
7.52 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	NeoCem Tail	NeoCem TM	988	sack	13.2	2.09		4	10.08
10.08 Gal		FRESH WATER							
0.35 %		SCR-100 (100003749)							
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	Claw Web Displacement	Claw Web Displacement	293	bbl	8.33				
0.0571 gal/bbl		CLA-WEB - BULK (101985043)							
Cement Left In Pipe	Amount	Reason						Shoe Joint	
Mix Water:	pH ##	Mix Water Chloride:	## ppm			Mix Water Temperature:	## °F °C		
Cement Temperature:	## °F °C		Plug Displaced by:	## lb/gal kg/m3 XXXX		Disp. Temperature:	## °F °C		
Plug Bumped?	Yes/No	Bump Pressure:	#### psi MPa			Floats Held?	Yes/No		
Cement Returns:	## bbl m3	Returns Density:	## lb/gal kg/m3			Returns Temperature:	## °F °C		
Comment 40bbls of spacer and 17bbls of cement to surface. Plug burst at 4611psi pumped 6bbls for a wet shoe.									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Comments
Event	1	Call Out	Call Out	4/14/2017	06:30:00	USER				Crew called out 0630 OL 1200
Event	2	Crew Leave Yard	Crew Leave Yard	4/14/2017	10:00:00	USER				JSA with HES crew on directions and road hazards on the way to location
Event	3	Arrive At Loc	Arrive At Loc	4/14/2017	11:30:00	USER				Arrived on location
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	4/14/2017	11:45:00	USER				JSA and hazard hunt with HES crew
Event	5	Start Job	Start Job	4/14/2017	15:10:03	COM4	8.29	0.00	-8.00	5 1/2 20# csg 8 1/2 OPH 9 5/8 Surf Csg. 15173 TD 15157 TP 15108 FC. Estimated TOTC 6057'
Event	6	Test Lines	Test Lines	4/14/2017	15:14:25	COM4	8.33	0.00	14.00	500psi kick out tet then bring up to 5000psi and hold for 2 mins
Event	7	Pump Spacer 1	Pump Spacer 1	4/14/2017	15:19:48	COM4	8.38	0.00	-1.00	Pump 40bbbls 11.5ppg 3.75yield Tuned Spacer with additives. 4bbl/min 250psi
Event	8	Drop Bottom Plug	Drop Bottom Plug	4/14/2017	15:29:21	USER	11.27	3.10	77.00	Drop Bottom Plug verified by customer
Event	9	Pump Lead Cement	Pump Lead Cement	4/14/2017	15:37:20	COM4				Pump 280bbbls (1002sks) 13.2ppg 1.57 yield Lead Cement. 8bbl/min 340psi
Event	10	Check Weight	Check Weight	4/14/2017	15:38:59	COM4	12.74	7.80	439.00	Weight verified by pressurized scales
Event	11	Pump Tail Cement	Pump Tail Cement	4/14/2017	16:14:19	COM4				Pump 367bbbls (988sks) 13.2ppg 2.09 yied Tail

										Cement. 8bbl/min 502psi
Event	12	Check Weight	Check Weight	4/14/2017	16:21:24	COM4				weight verified by pressurized scales
Event	13	Check Weight	Check Weight	4/14/2017	16:21:26	COM4	13.19	8.10	470.00	weight verified by pressurized scales
Event	14	Shutdown	Shutdown	4/14/2017	17:04:19	COM4				Shut down and clean pumps and lines
Event	15	Drop Top Plug	Drop Top Plug	4/14/2017	17:20:30	COM4	8.21	0.00	29.00	Drop Top Plug verified by customer
Event	16	Pump Displacement	Pump Displacement	4/14/2017	17:21:15	COM4	8.20	1.80	35.00	Pump 333bbbls of H2O. First 40bbbls with MMCR remainder with clayweb and biocide. Spacer to surface at 275 away cement to surface at 316 away. 17bbbls of cement to surface.
Event	17	Bump Plug	Bump Plug	4/14/2017	18:14:48	COM4	8.50	0.00	2713.00	Bumped plug at 2170 brought up to 2650. checke floats 3bbls back.
Event	18	Pressure Up	Pressure Up	4/14/2017	18:19:53	USER	8.42	0.00	49.00	Pressure up well to blow plug. Plug burst @ 4611psi pumped 6bbls of H2O @ 5bbl/min to leave wet shoe.
Event	19	End Job	End Job	4/14/2017	18:26:32	COM4				Thank you Markovich and crew

3.0 Attachments

3.1 Synergy Hood 14N-22B-M Production Job Chart.png

