

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: Precision562								
Job BOM: 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA/HB41307		Srv 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	Cla Web Displacement	Cla Web Displacement	293	bbl	8.33				
0.0571 gal/bbl		CLA-WEB - BULK (101985043)							
Cement Left In Pipe		Amount	42 ft			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 (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	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 40bbls 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 280bbls (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 367bbls (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 333bbls of H2O. First 40bbls with MMCR remainder with clayweb and biocide. Spacer to surface at 275 away cement to surface at 316 away. 17bbls 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

