

HALLIBURTON

iCem[®] Service

SYNERGY RESOURCES CORPORATION

Date: Monday, June 26, 2017

Hood 23N-22C-M Production

Job Date: Sunday, May 07, 2017

Sincerely,

Julia Nichols

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 23N-22C-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 26 barrels 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 #: 3786243		Quote #:		Sales Order #: 0904012705				
Customer: SYNERGY RESOURCES CORPORATION				Customer Rep: Kalib Ford						
Well Name: HOOD			Well #: 23N-22C-M			API/UWI #: 05-123-44379-00				
Field: WATTENBERG		City (SAP): GREELEY		County/Parish: WELD		State: COLORADO				
Legal Description: SE SE-20-8N-86W-865FSL-1122FEL										
Contractor: Precision				Rig/Platform Name/Num: Precision 562						
Job BOM: 7523 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HB41307				Srv Supervisor: Nicholas Roles						
Job										
Formation Name										
Formation Depth (MD)		Top			Bottom					
Form Type					BHST					
Job depth MD		15299ft			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	1761	0	1761
Casing		5.5	4.778	20		P-110	0	15299	0	7081
Open Hole Section			8.5				1761	15315	1761	7081
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make		
Guide Shoe	5.5				Top Plug	5.5		HES		
Float Shoe	5.5			15299	Bottom Plug	5.5		HES		
Float Collar	5.5				SSR plug set	5.5		HES		
Insert Float	5.5				Plug Container	5.5	1	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	23.5	4		
0.50 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003685)								
0.50 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)								
149.34 lbm/bbl		BARITE, BULK (100003681)								
35.10 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/mi n	Total Mix Fluid Gal	
2	ElastiCem Lead	ELASTICEM (TM) SYSTEM	1017	sack	13.2	1.57		8	7.52	
7.52 Gal		FRESH WATER								
3	NeoCem Tail	NeoCem TM	988	sack	13.2	2.09		8	10.08	
10.08 Gal		FRESH WATER								
0.35 %		SCR-100 (100003749)								
4	MMCR Displacement	MMCR Displacement	40	bbl	8.34			8		
0.50 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)								
5	Cla Web Displacement	Cla Web Displacement	296	bbl	8.33			8		
0.0571 gal/bbl		CLA-WEB - BULK (101985043)								
Cement Left In Pipe										
Amount		0 ft			Reason			Wet shoe		
Comment got 26 bbls of cement to surface. Estimated TOT 6179'.										

2.0 Real-Time Job Summary

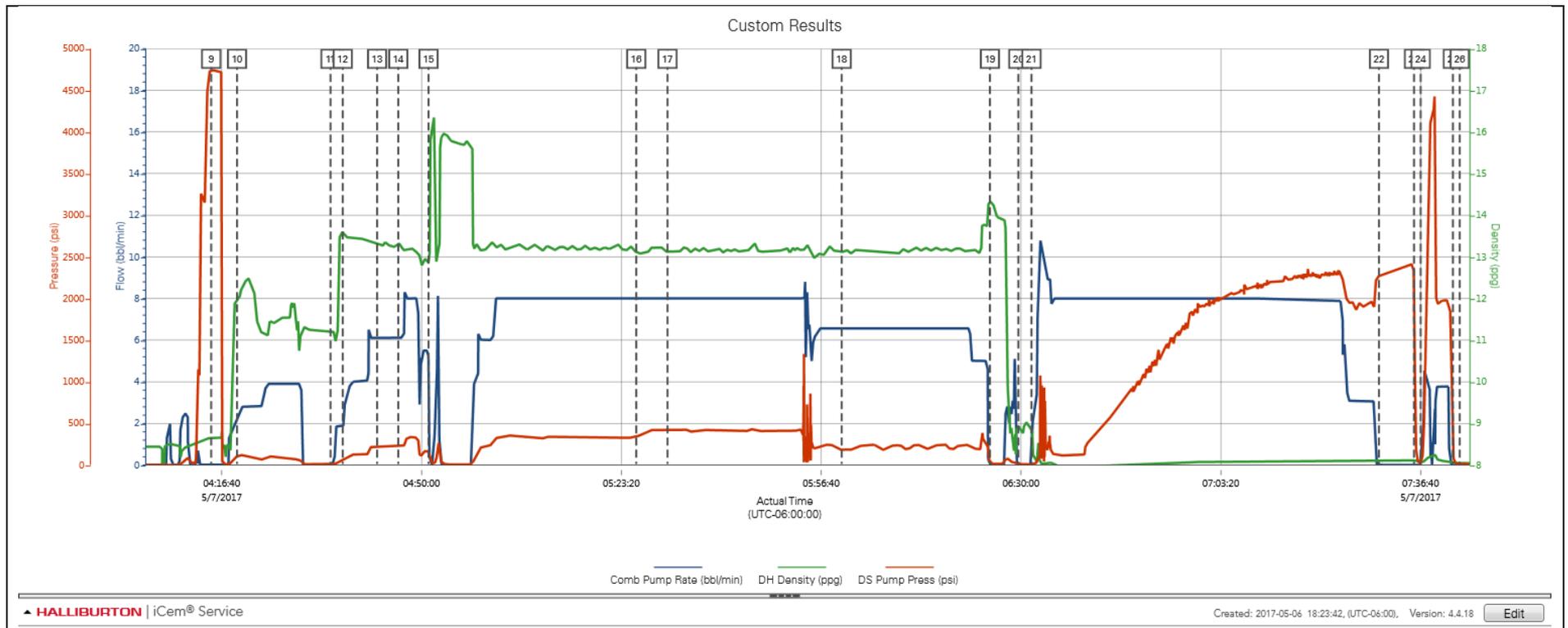
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate <i>(bbl/min)</i>	DH Density <i>(ppg)</i>	DS Pump Press <i>(psi)</i>	Comments
Event	1	Call Out	Call Out	5/6/2017	17:30:00	USER				Crew call out for o/l at 00:00
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/6/2017	20:45:00	USER				All crew aware of hazards and directions. All fit to drive.
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	5/6/2017	21:00:00	USER				Started journey management.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	5/6/2017	22:00:00	USER				Met with company man to discuss job details and procedure. Performed hazard hunt and site assessment. Rig had 2000 feet of casing left to run.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	5/6/2017	22:15:00	USER				All hse present. Discussed bulk and iron placement and all red zone areas. Caution taped high pressure zones.
Event	6	Other	Other	5/6/2017	22:30:00	USER				Water Test- PH-6 Chlo-0 Temp-60 Cement temp-70
Event	7	Safety Meeting - Pre Job	Safety Meeting - Pre Job	5/7/2017	03:15:00	USER	0.00	8.45	1.00	Discussed job associated hazards, contingencies and job procedure with all job associated personnel.
Event	8	Start Job	Start Job	5/7/2017	03:53:06	COM1	0.00	8.45	1.00	TD-15315', TP-15299' 5.5" 20#, FC-15193', TVD-7081', OH-8.5", SURF-1761' 9.625" 36#, MUD-9.7#
Event	9	Test Lines	Test Lines	5/7/2017	04:14:55	COM1	0.00	8.64	4745.00	Pumped 5bbbls fresh water to fill lines, closed manifold and performed 500psi k/o function test, proceeded to perform 5th gear stall at 1800psi, continued to bring pressure up to 5000psi. Pressure stabilized and held with no leaks.
Event	10	Pump Spacer 1	Pump Spacer 1	5/7/2017	04:19:13	COM1	2.20	12.00	104.00	Pumped 40bbbls 11.5# 3.75y 23.5g/s Tuned Spacer III with 20g Musol A, 20g Dual Spacer B and 10g D-air at 4bpm 98psi.
Event	11	Drop Bottom Plug	Drop Bottom Plug	5/7/2017	04:34:49	COM1	0.00	11.20	5.00	Dropped by HES supervisor, witnessed by company man.
Event	12	Pump Lead Cement	Pump Lead Cement	5/7/2017	04:36:51	COM1	1.90	13.61	45.00	Pumped 1017sks or 284.4bbbls 13.2# 1.57y 7.52g/s Elasticem at 8bpm 370psi.

Event	13	Check Weight	Check Weight	5/7/2017	04:42:35	COM1				Weight verified with pressurized mud scales.
Event	14	Check Weight	Check Weight	5/7/2017	04:46:07	COM1				Weight verified with pressurized mud scales.
Event	15	Standby - Other - see comments	Standby - Other - see comments	5/7/2017	04:51:10	USER	5.30	12.86	164.00	Lost cement delivery resumed pumping once back to weight.
Event	16	Pump Tail Cement	Pump Tail Cement	5/7/2017	05:25:49	COM1				Pumped 988sks or 367.8bbls 13.2# 2.09y 10.08g/s Neocem at 8bpm 425psi
Event	17	Check Weight	Check Weight	5/7/2017	05:31:02	COM1				Weight verified with pressurized mud scales.
Event	18	Check Weight	Check Weight	5/7/2017	06:00:05	USER	6.60	13.13	181.00	Weight verified with pressurized mud scales.
Event	19	Clean Lines	Clean Lines	5/7/2017	06:24:49	COM1				Pumped 5bbls fresh water to clean through pumps and lines.
Event	20	Pump Displacement	Pump Displacement	5/7/2017	06:29:34	COM1				Pumped 336bbls fresh water with 5g MMCR in first 40bbls, 20g clayweb and 20g biocide throughout.
Event	21	Drop Top Plug	Drop Top Plug	5/7/2017	06:31:45	COM1				Dropped by HES supervisor, witnessed by company man.
Event	22	Bump Plug	Bump Plug	5/7/2017	07:29:43	COM1	0.00	8.10	2279.00	Slowed down to 3bpm at 320bbls away, final circulating pressure-1920PSI, Bump pressure-2425PSI. Held pressure on casing for 5 minutes for casing test.
Event	23	Check Floats	Check Floats	5/7/2017	07:35:33	USER	0.00	8.10	2239.00	Released pressure and got back 3 bbls to truck. Floats held.
Event	24	Pressure Up Well	Pressure Up Well	5/7/2017	07:36:40	COM1	0.00	8.10	15.00	Pressured up at 4bpm disc burst at 4700 PSI continued to pump 6bbls of fresh water at 4bpm 1970 PSI for wet shoe.
Event	25	Check Floats	Check Floats	5/7/2017	07:42:03	USER	0.00	8.05	133.00	Released pressure got 2 bbls back.
Event	26	End Job	End Job	5/7/2017	07:43:11	COM1				Got 26bbls of cement to surface. Estimated TOT 6179'
Event	27	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig-Down	5/7/2017	07:50:00	USER	0.00	8.04	5.00	All HSE present. Discussed red zone areas and trapped pressure hazards. Watch for suspended loads and rig down procedures, including hand placement, lifting techniques, and swing radius.
Event	28	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/7/2017	11:00:00	USER				All HSE present and fit to drive. Aware of directions and hazards.
Event	29	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	5/7/2017	11:15:00	USER				Pre journey managment prior to departure.

3.0 Attachments

3.1 Custom Results - Job Chart with Events



3.2 Custom Results - Job Chart without Events

