

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS-EBUS

Date: Thursday, May 11, 2017

Windsor LV2-7 Production

Job Date: Wednesday, April 26, 2017

Sincerely,

Julia Nichols

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Windsor LV2-7** 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 60 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 #: 369404		Ship To #: 3784920		Quote #:		Sales Order #: 0903991584					
Customer: EXTRACTION OIL & GAS				Customer Rep:							
Well Name: WINDSOR LV2			Well #: 7		API/UWI #: 05-123-44310-00						
Field: WATTENBERG		City (SAP): WINDSOR		County/Parish: WELD		State: COLORADO					
Legal Description: SE SE-14-6N-67W-740FSL-286FEL											
Contractor: Cyclone				Rig/Platform Name/Num: Cyclone 37							
Job BOM: 7523 7523											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199				Srcv Supervisor: Bradley Hinkle							
Job											
Formation Name											
Formation Depth (MD)		Top			Bottom						
Form Type				BHST							
Job depth MD			15051ft		Job Depth TVD		7225ft				
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			0	1510	0	1510	
Casing		5.5	4.778	20			0	15051	0	7225	
Open Hole Section			8.5				1510	15067	0	7225	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	5.5					Top Plug	5.5	1	KLX		
Float Shoe	5.5	1	KLX	15051		Bottom Plug	5.5		HES		
Float Collar	5.5	2	KLX	15046		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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Spacer	Tuned Spacer III			50	bbl	11.5	3.74		4	
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	Primary Cement	ELASTICEM			2400	sack	13.2	1.57		8	7.53

last updated on 5/11/2017 10:34:29 AM

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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/mi n	Total Mix Fluid Gal
3	Displacement	Fresh Water	333	bbl	8.33			8	
Cement Left In Pipe		Amount	0 ft		Reason			Wet Shoe by Design	
Mix Water:		pH 6	Mix Water Chloride:		0 ppm		Mix Water Temperature:		54 °F
Cement Temperature:		72 °F	Plug Displaced by:		## lb/gal kg/m ³ XXXX		Disp. Temperature:		## °F °C
Plug Bumped?		Yes/No	Bump Pressure:		#### psi MPa		Floats Held?		Yes/No
Cement Returns:		60 bbl	Returns Density:		## lb/gal kg/m ³		Returns Temperature:		## °F °C
Comment 50 bbls Tuned Spacer and 60 bbls Cement to surface.									

2.0 Real-Time Job Summary

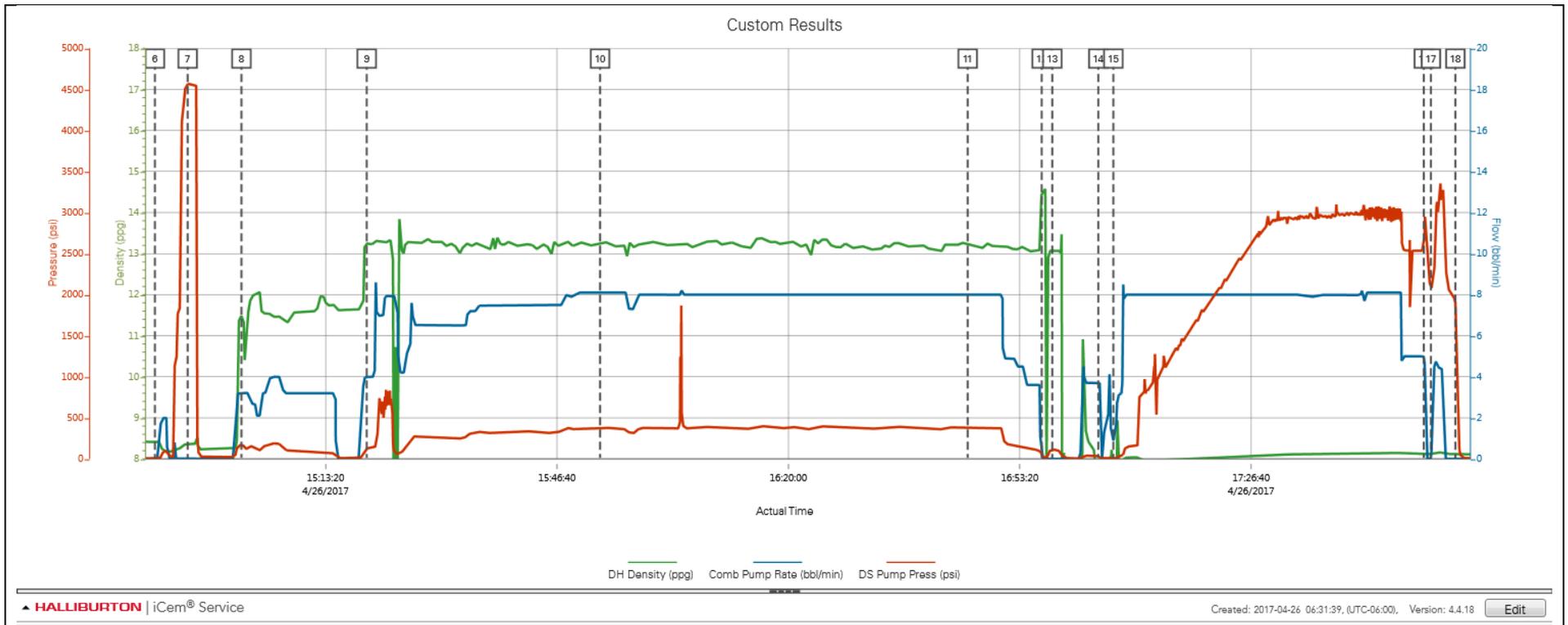
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	DS Pump Press <i>(psi)</i>	Comments
Event	1	Call Out	Call Out	4/26/2017	04:30:00	USER				Crew called for an on location of 1000. Crew was Bradley Hinkle, Todd Porter, Knoell Coombs, James Bunnell and Luis Ramirez.
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	4/26/2017	09:00:00	USER				Pre-journey safety meeting.
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	4/26/2017	10:00:00	USER				Sign in, perform a site assessment and pre rig-up safety meeting.
Event	4	Other	Check-in With Customer	4/26/2017	10:05:00	USER				Check-in and get job numbers. TD: 15067. TP: 15051. FC: 15046. TVD: 7225. 5.5" 20# casing inside a 8.5" OH. 9.625" 36# surface casing at 1510. Mud weight at 10 ppg.
Event	5	Safety Meeting - Pre Job	Safety Meeting - Pre Job	4/26/2017	13:45:00	USER	8.41	0.00	2.00	Pre-job safety meeting with all personnel on location.
Event	6	Start Job	Start Job	4/26/2017	14:48:44	COM4	8.43	0.00	1.00	
Event	7	Test Lines	Test Lines	4/26/2017	14:53:28	COM4	8.36	0.00	4575.00	Pressure test lines with a 500 PSI electronic kick-out test.
Event	8	Pump Spacer 1	Pump Spacer 1	4/26/2017	15:01:12	COM4	11.50	3.20	176.00	Pump 50 bbls Tuned Spacer mixed at 11.5 ppg with surfactants added. Density verified by pressurized scales.
Event	9	Pump Cement	Pump Cement	4/26/2017	15:19:16	COM4	13.22	4.00	131.00	Pump 671 bbls (2400 sacks) ElastiCem mixed at 13.2 ppg. Density verified by pressurized scales.
Event	10	Check Weight	Check Weight	4/26/2017	15:52:52	COM4	13.25	8.10	372.00	Cement weighed at 13.2 ppg.
Event	11	Check Weight	Check Weight	4/26/2017	16:45:49	COM4				
Event	12	Shutdown	Shutdown	4/26/2017	16:56:29	COM4				
Event	13	Clean Lines	Clean Lines	4/26/2017	16:58:01	USER	13.08	0.00	112.00	Rig blew down lines from floor and HES washed pumps until clean at wash-up tank.
Event	14	Drop Top Plug	Drop Top Plug	4/26/2017	17:04:38	USER	7.91	3.70	32.00	Top plug loaded by breaking off cap on cement head and shoving into casing. Witnessed by customer.

Event	15	Pump Displacement	Pump Displacement	4/26/2017	17:06:48	COM4				Pump 333 bbls fresh water. Good returns throughout. 50 bbls Tuned Spacer and 60 bbls cement to surface.
Event	16	Bump Plug	Bump Plug	4/26/2017	17:51:32	USER	8.13	5.00	2547.00	Bump plug at 2500 PSI and kicked out at 2950 PSI. Pressure fell off immediately indicating a potential rupture of the plug.
Event	17	Other	Wet Shoe	4/26/2017	17:52:34	USER	8.12	0.00	2076.00	Pump 5 bbls for wet shoe. Pressure was higher than normal potentially indicating that we were pumping around the plug and that it didn't burst.
Event	18	Check Floats	Check Floats	4/26/2017	17:56:05	USER	8.12	0.00	1904.00	2 bbls back. Floats held.
Event	19	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	4/26/2017	18:00:00	USER	8.11	0.00	6.00	Pre rig-down safety meeting.
Event	20	End Job	End Job	4/26/2017	18:12:42	COM4				
Event	21	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	4/26/2017	19:00:00	USER				Pre-journey safety meeting.

3.0 Attachments

3.1 Custom Results – Job Chart with Events



3.2 Custom Results – Job Chart without Events

