

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

Date: Monday, February 08, 2016

JOHNSON TRUST #7 PRODUCTION

Job Date: Thursday, February 04, 2016

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 **Johnson Trust #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.

All spacer and 29 bbls of cement back 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 #: 3699326		Quote #:		Sales Order #: 0903100002					
Customer: EXTRACTION OIL & GAS				Customer Rep: Larry Siegel							
Well Name: JOHNSON TRUST			Well #: 7		API/UWI #: 05-123-42317-00						
Field: WATTENBERG		City (SAP): LONGMONT		County/Parish: WELD		State: COLORADO					
Legal Description: NW SW-13-2N-68W-2097FSL-388FWL											
Contractor: PATTERSON-UTI ENERGY				Rig/Platform Name/Num: PATTERSON 346							
Job BOM: 7523											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199				Srcv Supervisor: Kendall Broom							
Job											
Formation Name											
Formation Depth (MD)		Top			Bottom						
Form Type					BHST						
Job depth MD		12256ft			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							
Casing		5.5	4.778	20				12223		0	
Open Hole Section			7.875					12256			
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe						Top Plug	5.5	1			
Float Shoe	5.5	1		12256		Bottom Plug					
Float Collar						SSR plug set					
Insert Float						Plug Container					
Stage Tool						Centralizers					
Miscellaneous Materials											
Gelling Agt		Conc		Surfactant		Conc	Acid Type	Qty	Conc		
Treatment Fld		Conc		Inhibitor		Conc	Sand Type	Size	Qty		
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	11.5 lb/gal Tuned Spacer III	Tuned Spacer III			50	bbl	11.5	3.74		6	
36.09 gal/bbl		FRESH WATER									
0.24 gal/bbl		MUSOL(R) A, BULK (100003696)									
0.24 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)									

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Cementing Job Summary

149.34 lbm/bbl		BARITE, BULK (100003681)							
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	ElastiCem Lead (SCR 742)	ELASTICEM (TM) SYSTEM	150	sack	13.2	1.6		8	7.67
7.67 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	ElastiCem Tail Cement (SCR 742)	ELASTICEM (TM) SYSTEM	1400	sack	13.2	1.6		8	7.68
7.68 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
4	MMCR Displacement	MMCR Displacement	0	bbl	8.33			8	
0.50 gal/bbl		MICRO MATRIX CEMENT RETARDER, 1 GAL PAIL (100003780)							
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	Displacement	Displacement	271	bbl	8.33			8	
Cement Left In Pipe		Amount	ft	Reason			Shoe Joint		
Comment									

2.0 Real-Time Job Summary

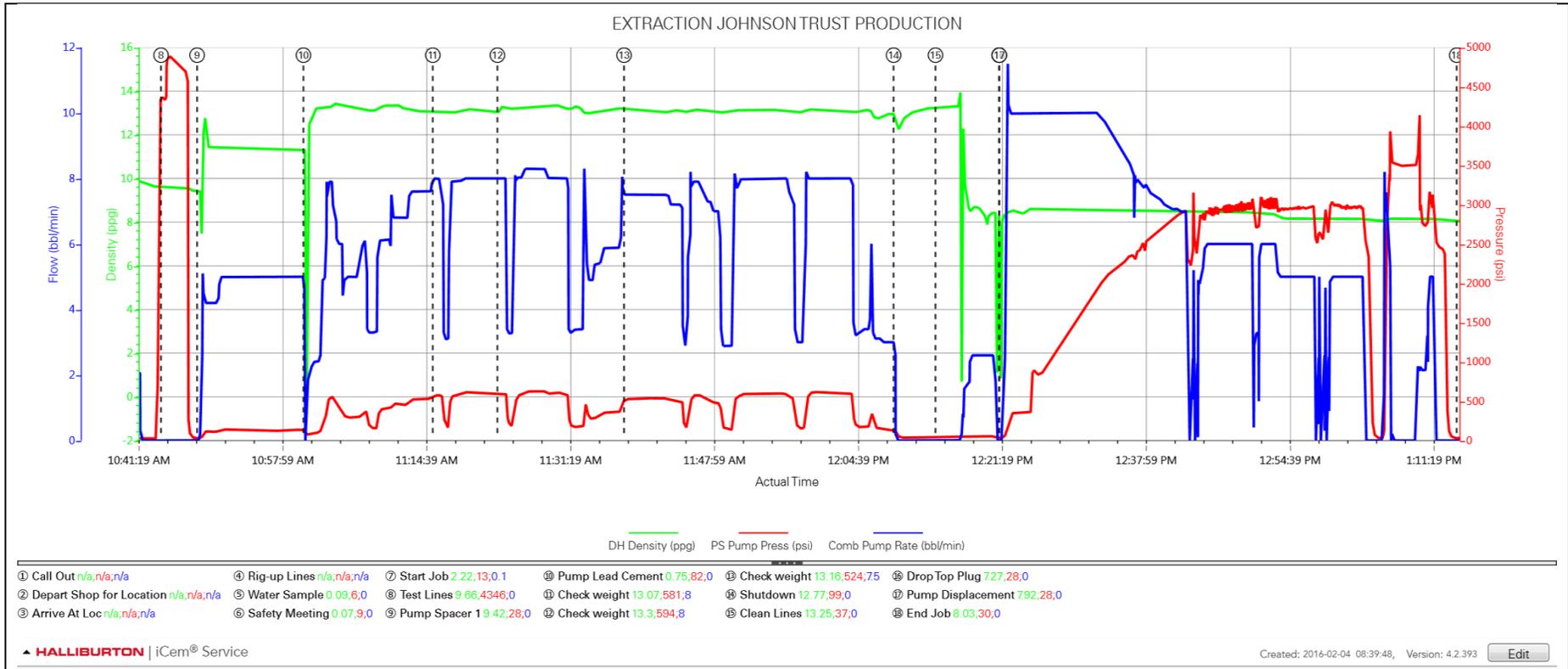
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	2/4/2016	00:30:00	USER				Called Crew out to be on location at 0700
Event	2	Depart Shop for Location	Depart Shop for Location	2/4/2016	06:00:00	USER				Held a safety meeting before leaving for location
Event	3	Arrive At Loc	Arrive At Loc	2/4/2016	06:30:00	USER				Arrived on location and met with the company man
Event	4	Rig-up Lines	Rig-up Lines	2/4/2016	06:45:00	USER				Had a hazard hunt before spotting in trucks and rigging up
Event	5	Other	Water Sample	2/4/2016	09:00:00	USER				Temp started at 110°F and was rechecked at 77°F, Chlorides 0 mg/L, Sulfates < 200 mg/L, PH 7, Iron 0 mg/L
Event	6	Safety Meeting	Safety Meeting	2/4/2016	09:45:00	USER				Held a safety meeting with the rig crew to discuss the operation and safety
Event	7	Start Job	Start Job	2/4/2016	10:39:34	COM4	2.22	13.00	0.10	Filled lines with 2 bbl water
Event	8	Test Lines	Test Lines	2/4/2016	10:44:10	COM4	9.66	4346.00	0.00	Tested to 4898 psi
Event	9	Pump Spacer 1	Pump Spacer 1	2/4/2016	10:48:20	COM4	9.42	28.00	0.00	Pumped 50 bbls Tuned Spacer III at 11.5 lb/gal, 3.74 yield, 23.8 gal/sks. Pumped at 5bpm and 140 psi
Event	10	Pump Lead Cement	Pump Lead Cement	2/4/2016	11:00:39	COM4	1.28	85.00	0.00	Pumped 442 bbls of 13.2 lb/gal ElastiCem (43 with Super CBL and 399 without), 1.6 Yield, 7.68 gal/sks. Pumped at 8 bpm and 591 psi
Event	11	Check Weight	Check weight	2/4/2016	11:15:38	COM4	13.07	576.00	8.00	Verified weight with pressurized scales
Event	12	Check Weight	Check weight	2/4/2016	11:23:07	COM4	13.30	597.00	8.00	Verified weight with pressurized scales
Event	13	Check Weight	Check weight	2/4/2016	11:37:47	COM4	13.17	527.00	7.50	Verified weight with pressurized scales
Event	14	Shutdown	Shutdown	2/4/2016	12:09:00	COM4				
Event	15	Clean Lines	Clean Lines	2/4/2016	12:13:51	COM4	13.25	37.00	0.00	Washed up cement head and lines
Event	16	Drop Top Plug	Drop Top Plug	2/4/2016	12:21:13	COM4	6.87	28.00	0.00	Dropped plug loaded by tool hand (KLX).

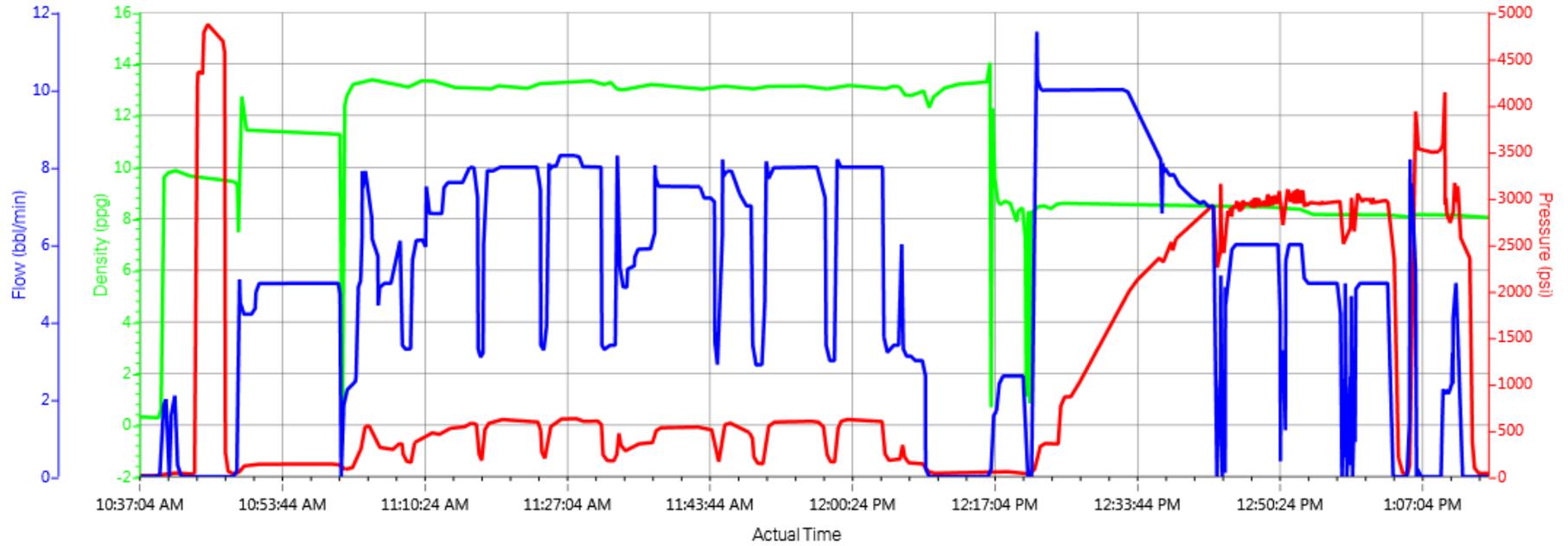
Event	17	Pump Displacement	Pump Displacement	2/4/2016	12:21:15	COM4	7.64	28.00	0.00	Pumped 271 bbl displacement, all 50 bbls of spacer was returned to surface as well as 29 bbls of cement. Bumped the plug at 271 bbl and 3910 psi. Checked floats, got 2.5 bbl back on the truck. Burst plug at 4178 psi and pumped another 5bbl for a wet shoe. Checked floats and got 2 bbl back on the truck.
Event	18	End Job	End Job	2/4/2016	13:14:14	COM4				
Event	19	Rig Down Lines	Rig Down Lines	2/4/2016	13:20:00	USER				Held a safety meeting before rigging down lines
Event	20	Depart Location	Depart Location	2/4/2016	14:15:00	USER				Held a safety huddle before leaving location

3.0 Attachments

3.1 EXTRACTION JOHNSON TRUST PRODUCTION-Custom Results.png



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DH Density (ppg) PS Pump Press (psi) Comb Pump Rate (bbl/min)