

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

Date: Thursday, November 10, 2016

Hester Farms E-36HC Surface

Job Date: Saturday, November 05, 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 **Hester Farms E-36HC cement Surface** 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 35 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 #: 3684140		Quote #:		Sales Order #: 0903647483				
Customer: EXTRACTION OIL & GAS -				Customer Rep: Larry Siegel						
Well Name: HESTER FARMS		Well #: E-36HC		API/UWI #: 05-123-41997-00						
Field: WATTENBERG	City (SAP): EATON	County/Parish: WELD		State: COLORADO						
Legal Description: 31-7N-66W-1649FNL-202FWL										
Contractor:		Rig/Platform Name/Num: Spud Rig								
Job BOM: 7521										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX38199				Srvc Supervisor: Aaron Smith						
Job										
Formation Name										
Formation Depth (MD)		Top			Bottom					
Form Type		BHST								
Job depth MD		1557ft	Job Depth TVD		1557ft					
Water Depth		Wk Ht Above Floor 6								
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	1557	0	1557
Open Hole Section			13.5				0	1588	0	1588
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	9.625					Top Plug	9.625	1	HES	
Float Shoe	9.625	1	ssii	1557		Bottom Plug	9.625		HES	
Float Collar	9.625	1	ssii	1515		SSR plug set	9.625		HES	
Insert Float	9.625					Plug Container	9.625	1	HES	
Stage Tool	9.625					Centralizers	9.625		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	Fresh Water	Fresh Water		20	bbl	8.33				
Stage/Plug #: 2										
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	SwiftCem	SWIFTCM (TM) SYSTEM		550	sack	13.5	1.74		5	9.2
9.20 Gal		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
3	Fresh Water	Fresh Water	117	bbl	8.33				
Cement Left In Pipe		Amount	42 ft		Reason			Shoe Joint	
Comment 35 bbls to surface									

2.0 Real-Time Job Summary

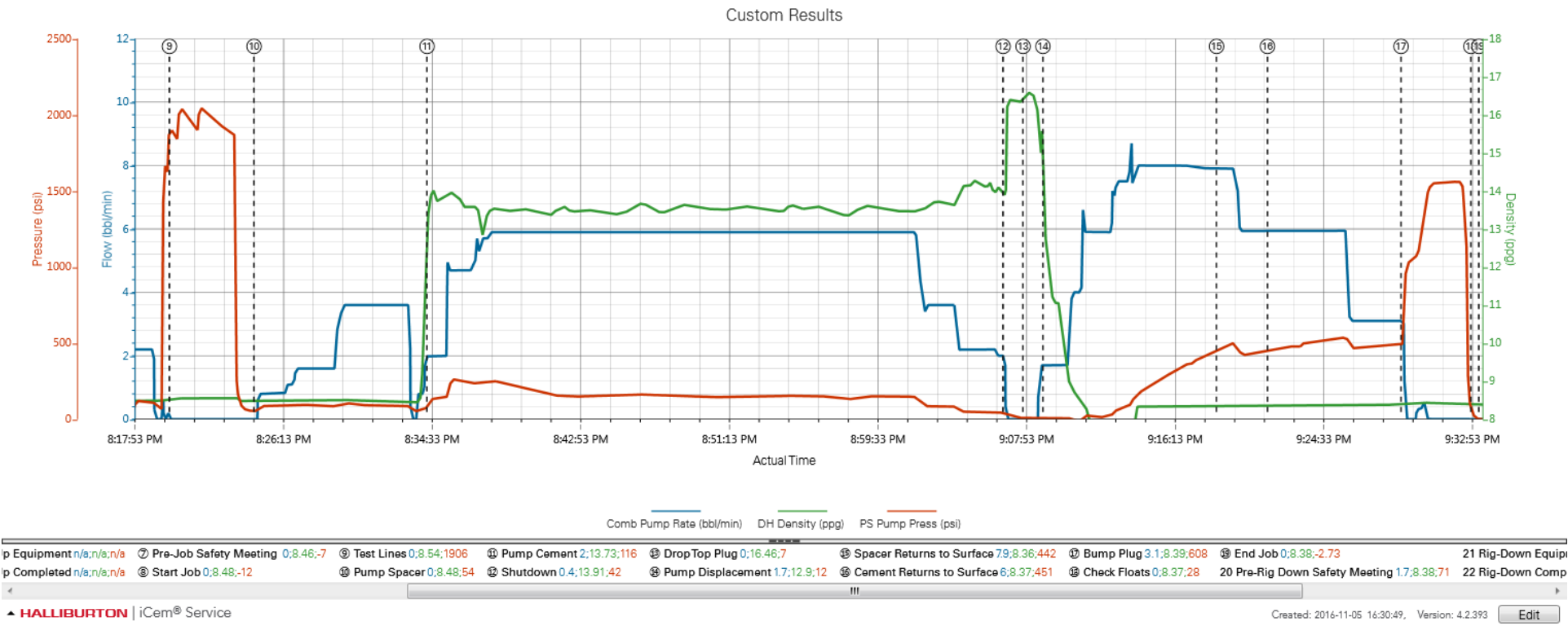
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	11/5/2016	11:00:00	USER				For on location@ 1600
Event	2	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	11/5/2016	11:45:00	USER				Journey called into dispatch
Event	3	Arrive at Location from Other Job or Site	Arrive at Location from Other Job or Site	11/5/2016	12:00:00	USER				With all equipment and materials
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	11/5/2016	16:00:00	USER				JSA to discuss the hazards of rig-up
Event	5	Rig-Up Equipment	Rig-Up Equipment	11/5/2016	17:00:00	USER				Rig-up all surface lines and equipment
Event	6	Rig-Up Completed	Rig-Up Completed	11/5/2016	17:20:00	USER				With no incidents or injuries
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	11/5/2016	20:00:00	USER				
Event	8	Start Job	Start Job	11/5/2016	20:17:16	COM5				
Event	9	Test Lines	Test Lines	11/5/2016	20:19:57	USER	0.00	8.54	1906.00	@3000 psi
Event	10	Pump Spacer	Pump Spacer	11/5/2016	20:24:42	USER	0.00	8.48	54.00	20 bbls fresh water, last 10 with 2#'s Red Dye
Event	11	Pump Cement	Pump Cement	11/5/2016	20:34:24	USER	2.00	13.73	116.00	550 sks (170.44 bbls) SwiftCem @13.5 ppg, verified with pressurized scales
Event	12	Shutdown	Shutdown	11/5/2016	21:06:42	USER				
Event	13	Drop Top Plug	Drop Top Plug	11/5/2016	21:07:49	USER				Pre-loaded HWE top plug in plug container, verified with scales
Event	14	Pump Displacement	Pump Displacement	11/5/2016	21:08:56	USER	1.70	12.90	12.00	117 bbls fresh water
Event	15	Spacer Returns to Surface	Spacer Returns to Surface	11/5/2016	21:18:40	USER				@62 bbls displacement. Total of 20 bbls to surface
Event	16	Cement Returns to	Cement Returns to	11/5/2016	21:21:31	USER				@82 bbls displacement. Total of 35 bbls to surface

		Surface	Surface							
Event	17	Bump Plug	Bump Plug	11/5/2016	21:29:01	USER	3.10	8.39	608.00	@500 over, Final Circulating pressure 489 psi
Event	18	Check Floats	Check Floats	11/5/2016	21:32:56	USER				Floats good .5 bbls back
Event	19	End Job	End Job	11/5/2016	21:33:22	COM5				Thanks Aaron Smith and crew
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	11/5/2016	21:37:03	USER				JSA to discuss the hazards of rig-down
Event	21	Rig-Down Equipment	Rig-Down Equipment	11/5/2016	21:48:40	USER				Rig-down all surface lines and equipment
Event	22	Rig-Down Completed	Rig-Down Completed	11/5/2016	21:51:09	USER				With no incidents or injuries
Event	23	Depart Location Safety Meeting	Depart Location Safety Meeting	11/5/2016	21:54:01	USER				Journey management meeting held prior to departure
Event	24	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	11/5/2016	22:00:00	USER				Journey called into dispatch

3.0 Attachments

3.1 Custom Results – Job Chart with Events



3.2 Custom Results – Job Chart without Events

