

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				Srv 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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Fresh Water	Fresh Water			20	bbl	8.33				
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
2	SwiftCem	SWIFTCEM (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 ft ³ /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

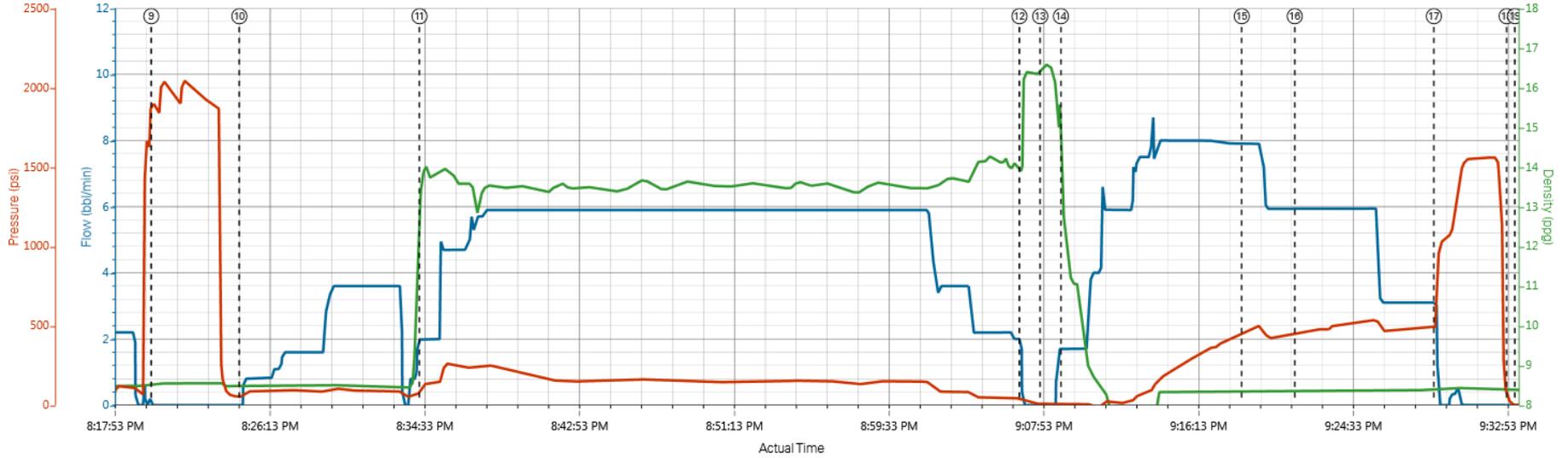
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	11/5/2016	11:00:00	USER				For on location@ 1600
Event	2	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	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

Custom Results



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

Equipment n/a;n/a;n/a 7 Pre-Job Safety Meeting 0;8.46;-7 9 Test Lines 0;8.54;1906 11 Pump Cement 2;13.73;116 13 Drop Top Plug 0;16.46;7 15 Spacer Returns to Surface 7.9;8.36;442 17 Bump Plug 3.1;8.39;608 19 End Job 0;8.38;-2.73 21 Rig-Down Equip
 Completed n/a;n/a;n/a 8 Start Job 0;8.48;-12 10 Pump Spacer 0;8.48;54 12 Shutdown 0.4;13.91;42 14 Pump Displacement 1.7;12.9;12 16 Cement Returns to Surface 6;8.37;451 18 Check Floats 0;8.37;28 20 Pre-Rig Down Safety Meeting 1.7;8.38;71 22 Rig-Down Comp

3.2 Custom Results – Job Chart without Events

Custom Results

