

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

United States of America

Date: Wednesday, November 09, 2016

Hester Farms F-36HN

Surface

Job Date: Friday, November 04, 2016

Sincerely,
Lauren Roberts

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 **Hester Farms F-36HN 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.

45 bbl. of cement 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 #: 3684141	Quote #:	Sales Order #: 0903646881							
Customer: EXTRACTION OIL & GAS -		Customer Rep: Larry Siegel								
Well Name: HESTER FARMS	Well #: F-36HN	API/UWI #: 05-123-42001-00								
Field: WATTENBERG	City (SAP): EATON	County/Parish: WELD	State: COLORADO							
Legal Description: 31-7N-66W-1664FNL-202FWL										
Contractor:		Rig/Platform Name/Num: Spud Rig								
Job BOM: 7521										
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	1561ft	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			0	1561	0	1561
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	WTHRFRD		
Float Shoe	9.625	1	WTHFD	1561	Bottom Plug	9.625		HES		
Float Collar	9.625	1	WTHFD	1516	SSR plug set	9.625		HES		
Insert Float	9.625				Plug Container	9.625		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/mi n	Total Mix Fluid Gal	
1	Spacer	Red Dye Water	10	bbl	8.33			3		
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	
2	SwiftCem	SWIFTCEM (TM) SYSTEM	600	sack	13.5	1.74	9.2	8	9.2	
9.20 Gal			FRESH WATER							

last updated on 11/4/2016 11:20:05 PM

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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	Displacement	Fresh Water	117	bbl	8.33			8	
Cement Left In Pipe		Amount	42 ft		Reason			Shoe Joint	
Mix Water:		pH ##	Mix Water Chloride:## ppm		Mix Water Temperature:## °F °C				
Cement Temperature:## °F °C		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:## bbl m ³		Returns Density:## lb/gal kg/m ³			Returns Temperature:## °F °C				
Comment 45 bbls cement to surface.									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comments
Event	1	Call Out	Call Out	11/4/2016	09:30:00	USER	Crew called out for an on location of 1300. Rig finishing pulling drill pipe.
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	11/4/2016	13:05:00	USER	Perform a site assessment and pre rig-up safety meeting.
Event	3	Other	Other	11/4/2016	13:15:00	USER	Check-in with customer and get numbers. TD: 1588. TP: 1561. FC: 1516. 9.625" 36# casing in a 13.5" OH.
Event	4	Start Job	Start Job	11/5/2016	21:34:46	COM5	
Event	5	Test Lines	Test Lines	11/5/2016	21:40:40	COM5	Pressure test lines with a 500 PSI EKO test.
Event	6	Pump Spacer 1	Pump Spacer 1	11/5/2016	21:44:41	COM5	Pump 10 bbls red dye water.
Event	7	Pump Cement	Pump Cement	11/5/2016	22:00:02	COM5	Pump 181 bbls (600 sacks) SwiftCem mixed at 13.5 ppg. Density verified by pressurized scales.
Event	8	Check Weight	Check weight	11/5/2016	22:10:12	COM5	Cement weighed at 13.5 ppg.
Event	9	Shutdown	Shutdown	11/5/2016	22:25:14	COM5	
Event	10	Drop Top Plug	Drop Top Plug	11/5/2016	22:26:50	COM5	Top plug preloaded.
Event	11	Pump Displacement	Pump Displacement	11/5/2016	22:26:55	COM5	Pump 117 bbls fresh water. Good returns throughout. 45 bbls cement to surface.
Event	12	Bump Plug	Bump Plug	11/5/2016	22:53:08	COM5	Bump plug at 466 PSI and increased to 1000 PSI. Held until pressure leveled off.
Event	13	Pressure Up Well	Pressure Up Well	11/5/2016	22:54:40	COM5	Increase pressure to 1500 PSI and held to test integrity of casing.
Event	14	Check Floats	Check Floats	11/5/2016	22:55:48	USER	Floats held. 1 bbl back.
Event	15	End Job	End Job	11/5/2016	22:57:16	COM5	
Event	16	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	11/5/2016	22:57:18	USER	Pre rig-down safety meeting.
Event	17	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	11/5/2016	23:16:04	USER	Pre-journey safety meeting.

3.0 Attachments

3.1 EXTRACTION HESTER FARMS F-36HN SURFACE.png

