

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

Date: Wednesday, November 23, 2016

MATRIX C-29HN Surface

Job Date: Wednesday, November 23, 2016

Sincerely,

Julia Nichols

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 **Matrix C-29HN 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 36 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 #: 3633958		Quote #:		Sales Order #: 0903652385				
Customer: EXTRACTION OIL & GAS -				Customer Rep: Sean McIntyre						
Well Name: MATRIX		Well #: C-29HN		API/UWI #: 05-123-40894-00						
Field: GREELEY		City (SAP): GREELEY		County/Parish: WELD		State: COLORADO				
Legal Description: SE SW-29-6N-65W-444FSL-2322FWL										
Contractor:				Rig/Platform Name/Num: Spud Rig						
Job BOM: 7521										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX38199				Srvc Supervisor: Jacob Ayers						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		1588ft		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	1633	0	1633
Open Hole Section			13.5				0	1633	0	1633
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	9.625			1633		Top Plug	9.625		HES	
Float Shoe	9.625					Bottom Plug	9.625		HES	
Float Collar	9.625					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/min	Total Mix Fluid Gal	
1	Red Dye Spacer	Red Dye Spacer	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	575	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/mi n	Total Mix Fluid Gal
3	Fresh Water	Fresh Water	122	bbl	8.33				
Cement Left In Pipe									
Amount		43.5 ft			Reason			Shoe Joint	
Mix Water PH: 7.5		Mix Water Chloride: <29 ppm			Mix Water Temperature: 55°F				
sulfates: <400		Cement Returns: 36 bbl							
Plug Bumped? Yes		Bump Pressure: 581psi			Floats Held? Yes				
Comment									

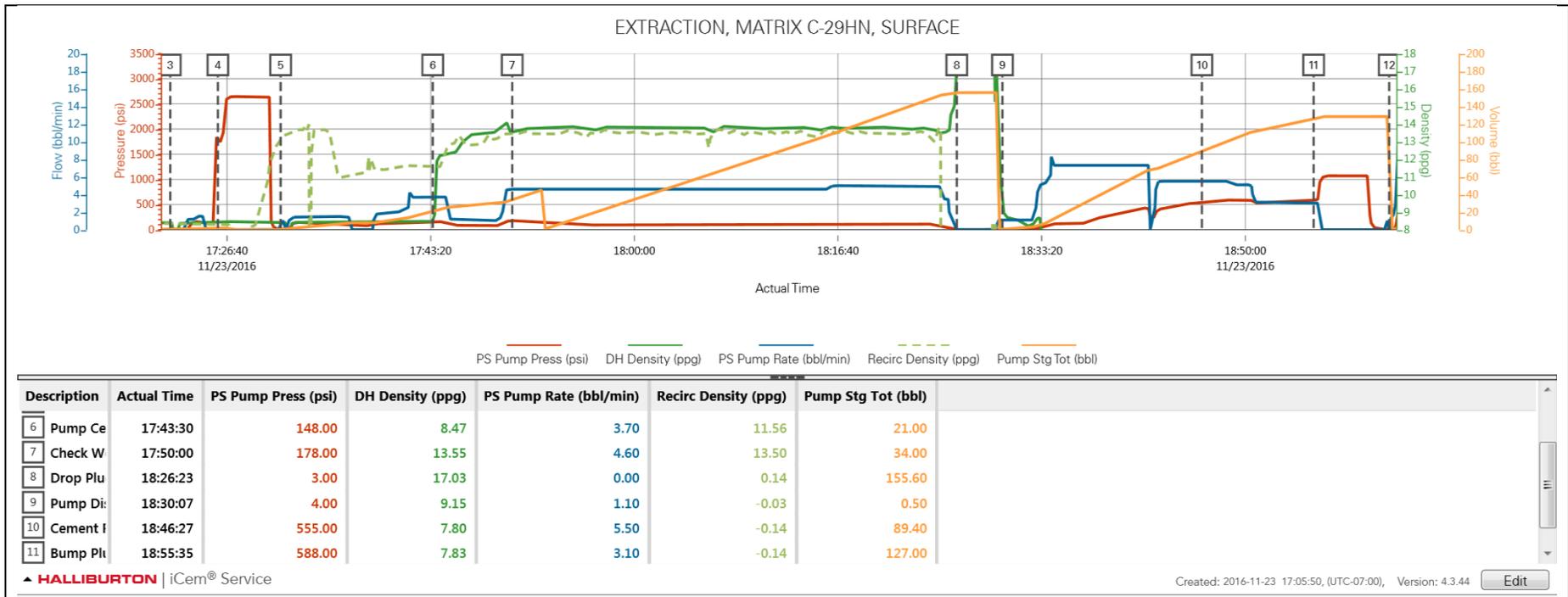
2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	PS Pump Rate (bbl/min)	Comments
Event	1	Depart Shop for Location	Depart Shop for Location	11/23/2016	15:00:34	USER				departed from yard @ 1500 due to equipment malfunction
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	11/23/2016	16:00:53	USER				arrived on location @ 1600 requested on location time was 1500
Event	3	Start Job	Start Job	11/24/2016	17:22:01	COM5	-1.00	8.40	0.00	
Event	4	Pressure Test	Pressure Test	11/24/2016	17:25:55	USER	1764.00	8.42	0.00	test pumps and lines to 2600 psi
Event	5	Pump Spacer	Pump Spacer	11/24/2016	17:31:03	USER	1.00	8.41	1.00	pumped 20 bbl red dye water spacer
Event	6	Pump Cement	Pump Cement	11/24/2016	17:43:30	USER	148.00	8.47	3.70	575 sks @13.5# 1,74 yield 9.2 wrq = 178bbl cmt
Event	7	Check Weight	Check Weight	11/24/2016	17:50:00	COM5	178.00	13.55	4.60	checked weight and auto calibrated downhole to match
Event	8	Drop Plug	Drop Plug	11/24/2016	18:26:23	USER	3.00	17.03	0.00	shut down drop plug
Event	9	Pump Displacement	Pump Displacement	11/24/2016	18:30:07	USER	4.00	9.15	1.10	calculated 122bbl to land plug
Event	10	Cement Returns to Surface	Cement Returns to Surface	11/24/2016	18:46:27	USER	555.00	7.80	5.50	calculated 32 bbl back to surface actually got back 36bbl
Event	11	Bump Plug	Bump Plug	11/24/2016	18:55:35	USER	588.00	7.83	3.10	calculated 440 psi to land plug bumped @ 581 took it 500 over for 3 min floats held 1/2 bbl back
Event	12	End Job	End Job	11/24/2016	19:01:46	COM5	3.00	7.81	0.00	end job

3.0 Attachments

3.1 Case 1-Custom Results.png



3.2 EXTRACTION, MATRIX C-29HN, SURFACE-Custom Results.png

