

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

United States of America, COLORADO

Date: Saturday, November 12, 2016

Matrix S-29HC

Surface

Job Date: Thursday, November 10, 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 **Matrix S-29HC** 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.

26 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]

The Road to Excellence Starts with Safety

Sold To #: 369404		Ship To #: 3630424		Quote #:		Sales Order #: 0903654611					
Customer: EXTRACTION OIL & GAS -				Customer Rep: SEAN MCYNTYRE							
Well Name: MATRIX			Well #: S-29HC			API/UWI #: 05-123-40792-00					
Field: GREELEY		City (SAP): GREELEY		County/Parish: WELD		State: COLORADO					
Legal Description: SE SW-29-6N-65W-479FSL-2374FWL											
Contractor:				Rig/Platform Name/Num: Spud Rig							
Job BOM: 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199				Srvc Supervisor: Andrew Brennecke							
Job											
Formation Name											
Formation Depth (MD)		Top			Bottom						
Form Type		BHST									
Job depth MD		1554ft			Job Depth TVD						
Water Depth					Wk Ht Above Floor		3				
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	1554	0	0	
Open Hole Section			13.5				0	1586	0	0	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	9.625		1	1554		Top Plug	9.625	1	HES		
Float Shoe						Bottom Plug					
Float Collar	9.625		1	1511		SSR plug set					
Insert Float						Plug Container	9.625	1	HES		
Stage Tool						Centralizers	9.625				
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			10	bbl	8.33			4	

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	SWIFTCEM (TM) SYSTEM	525	sack	13.5	1.74		6	9.2
9.20 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	Fresh Water	Fresh Water	116.8	bbl	8.33			8	
Cement Left In Pipe									
Amount		43.5 ft			Reason			Shoe Joint	
Mix Water: pH 7		Mix Water Chloride: 0 ppm			Mix Water Temperature: 58 °F °C				
Cement Temperature:		Plug Displaced by: 8.33 lb/gal			Disp. Temperature:				
Plug Bumped? Yes		Bump Pressure: 422 psi			Floats Held? Yes				
Cement Returns: 26 bbl m3		Returns Density:			Returns Temperature:				
Comment									

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	11/11/2016	17:00:00	USER	
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	11/11/2016	20:30:00	USER	ALL HES PRESENT
Event	3	Crew Leave Yard	Crew Leave Yard	11/11/2016	20:45:00	USER	
Event	4	Arrive At Loc	Arrive At Loc	11/11/2016	21:30:00	USER	RIG WAITING, CEMENT NO LOADED ON TIME, WAITED ON BODY LOAD TO ARRIVE BEFORE PUMPING
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	11/11/2016	21:35:00	USER	
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	11/11/2016	21:40:00	USER	ALL HES PRESENT
Event	7	Rig-Up Completed	Rig-Up Completed	11/11/2016	22:00:00	USER	1-ELITE, 2-400 BODY LOADS, 9.625" QUICK LATCH PLUG CONTAINER, 2" PUMP IRON, 4" SUCTION HOSE
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	11/11/2016	22:20:00	USER	ALL HES AND RIG CREW PRESENT
Event	9	Start Job	Start Job	11/11/2016	22:26:56	COM5	TD-1586', TP-1554', SJ-43.5', OH-13.5", MUD-8.6PPG, CNDT-16" 0-60'
Event	10	Prime Pumps	Prime Pumps	11/11/2016	22:27:19	COM5	FRESH WATER
Event	11	Test Lines	Test Lines	11/11/2016	22:32:21	COM5	ALL PRESSURE HELD ON LINES
Event	12	Pump Spacer 1	Pump Spacer 1	11/11/2016	22:36:31	COM5	FRESH WATER WITH DYE
Event	13	Check Weight	Check weight	11/11/2016	22:48:50	COM5	WEIGHT VERIFIED BY PRESSURIZED MUD SCALES
Event	14	Pump Cement	Pump Cement	11/11/2016	22:49:48	USER	SWIFTCEM 525SKS, 1.74CF/SK, 9.2 GAL/SK
Event	15	Shutdown	Shutdown	11/11/2016	23:21:15	USER	WASHED UP ON TOP OF PLUG
Event	16	Drop Top Plug	Drop Top Plug	11/11/2016	23:23:09	USER	PLUG DROP VERIFIED BY TATTLE TALE
Event	17	Pump Displacement	Pump Displacement	11/11/2016	23:23:37	COM5	FRESH WATER
Event	18	Slow Rate	Slow Rate	11/11/2016	23:41:28	USER	SLOW RATE LAST 10 BBLS

Event	19	Bump Plug	Bump Plug	11/11/2016	23:45:13	COM5	PLUG BUMPED AR 422PSI
Event	20	Check Floats	Check Floats	11/11/2016	23:46:29	USER	FLOATS HELD .5 BBL BACK
Event	21	Other	CASING TEST	11/11/2016	23:48:33	COM5	PRESSURED UP TO 1606 AND HELD PRESSURE
Event	22	End Job	End Job	11/11/2016	23:52:15	COM5	GOOD RETURNS THROUGH OUT JOB, 26 BBLS CEMENT TO SURFACE
Event	23	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	11/11/2016	23:54:09	USER	ALL HES PRESENT
Event	24	Crew Leave Location	Crew Leave Location	11/11/2016	00:30:00	USER	THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

3.0 Attachments

3.1 903654611 SURFACE-Custom Results.png

