

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

Date: Thursday, November 10, 2016

Matrix T-29HN Surface

Job Date: Thursday, November 10, 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 **Matrix T-29HN** cement **Production** 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 25 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 #: 389404		Ship To #: 3827208		Quote #:		Sales Order #: 0903653936				
Customer: EXTRACTION OIL & GAS -				Customer Rep: Sean McIntyre						
Well Name: MATRIX		Well #: T-29HN		API/UWI #: 05-123-40896-00						
Field: GREELEY		City (SAP): GREELEY		County/Parish: WELD		State: COLORADO				
Legal Description: SE SW-29-6N-65W-488FSL-2387FWL										
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		1588ft		Job Depth TVD		1588ft				
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	1554	0	0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	9.625	1		1586		Top Plug	9.625	1	HES	
Float Shoe	9.625	1		1511		Bottom Plug				
Float Collar						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	40	bbl	8.33			5		
Fluid Data										
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	SWIFTCEN (TM) SYSTEM	525	sack	13.5	1.74		6	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	116.8	bbl	8.33			8	
Cement Left In Pipe		Amount	44 ft		Reason			Shoe Joint	
Mix Water:		Ph7	Mix Water Chloride: 0 ppm			Mix Water Temperature:		80 °F °C	
Cement Temperature:			Plug Displaced by: ## lb/gal			Disp. Temperature:			
Plug Bumped?		Yes/	Bump Pressure: #### psi MPa			Floats Held?		Yes	
Cement Returns:		24 bbl m3	Returns Density:			Returns Temperature:			
Comment 25 BBLS CEMENT TO SURFACE									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	11/9/2016	21:00:00	USER				
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	11/10/2016	01:00:00	USER				ALL HES PRESENT
Event	3	Crew Leave Yard	Crew Leave Yard	11/10/2016	01:15:00	USER				
Event	4	Arrive At Loc	Arrive At Loc	11/10/2016	02:00:00	USER				RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	11/10/2016	02:30:00	USER				
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	11/10/2016	03:00:00	USER				ALL HES PRESENT
Event	7	Rig-Up Completed	Rig-Up Completed	11/10/2016	04:00:00	USER				1-ELITE, 2-400 BULK BODY LOADS, 9.625" QUICK LATCH PLUG CONTAINER, 2" PUMP IRON, 4" SUCTION HOSE
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	11/10/2016	04:15:00	USER				ALL HES AND RIG CREW PRESENT
Event	9	Start Job	Start Job	11/10/2016	04:29:00	USER	8.31	0.00	8.00	TD-1586', TP-1554', SJ-43.5', CSG- 9.625" 36#, OH-13.5', MUD-8.6PPG, CNDT-16" 0-60'
Event	10	Prime Pumps	Prime Pumps	11/10/2016	04:29:55	USER	8.33	2.00	407.00	FRESH WATER AHEAD
Event	11	Test Lines	Test Lines	11/10/2016	04:35:35	COM5	8.34	0.00	2720.00	ALL PRESSURE HELD ON LINES
Event	12	Pump Spacer 1	Pump Spacer 1	11/10/2016	04:37:50	COM5	8.32	5.00	438.00	40BBLS FRESH WATER WITH DYE IN LAST 10 BBLS
Event	13	Pump Cement	Pump Cement	11/10/2016	04:54:28	COM5	13.50	6.00	240.00	Swiftcem 525SKS, 1.74CF/SK, 9.2GAL/SK
Event	14	Shutdown	Shutdown	11/10/2016	05:24:21	USER				WASHED UP ON TOP OF PLUG
Event	15	Drop Top Plug	Drop Top Plug	11/10/2016	05:25:51	USER				PLUG DROP VERIFIED BY TATTLE TALE
Event	16	Pump Displacement	Pump Displacement	11/10/2016	05:26:07	COM5	8.36	7.50	590.00	FRESH WATER
Event	17	Shutdown	Shutdown	11/10/2016	05:34:33	USER	8.36	0.00	31.00	4X4 LOST PRIME

Event	18	Slow Rate	Slow Rate	11/10/2016	05:48:56	USER	8.34	2.00	398.00	SLOW RATE LAST 10 BBLS
Event	19	Bump Plug	Bump Plug	11/10/2016	05:52:50	COM5	8.36	1.90	423.00	PLUG BUMPED
Event	20	Check Floats	Check Floats	11/10/2016	05:54:11	USER	8.33	0.00	875.00	FLOATS HELD .5 BBL BACK TO DISPLACEMENT TANK
Event	21	Other	CASING TEST	11/10/2016	05:56:21	COM5	8.33	0.00	1561.00	1550 PSI ON CASING FOR TEST, 5 MINUTES
Event	22	End Job	End Job	11/10/2016	06:01:42	COM5	8.36	0.00	7.00	GOOD RETURNS THROUGH OUT JOB, 25 BBLS CEMENT TO SURFACE
Event	23	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	11/10/2016	06:05:00	USER				ALL HES PRESENT
Event	24	Crew Leave Location	Crew Leave Location	11/10/2016	07:00:00	USER				THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

3.0 Attachments

3.1 Custom Results – Job Chart with Events

