

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS-EBUS

For: Extraction

Date: Tuesday, May 22, 2018

Coyote Trails 34S-20-9N Surface

Job Date: Thursday, March 29, 2018

Sincerely,

Ryan Keeran

Legal Notice

Disclaimer:

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the Coyote Trails 34S-20-9N 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.

27 bbls of cement were circulated 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 Fort Lupton

The Road to Excellence Starts with Safety

Sold To #: 369404		Ship To #: 3843034		Quote #:		Sales Order #: 0904742473					
Customer: EXTRACTION OIL & GAS -				Customer Rep: Jose Torres							
Well Name: COYOTE TRAILS			Well #: 34S-20-9N		API/UWI #: 05-123-45985-00						
Field: WATTENBERG		City (SAP): ERIE		County/Parish: WELD		State: COLORADO					
Legal Description: SW SE-28-1N-68W-1146FSL-2157FEL											
Contractor: PATTERSON-UTI ENERGY				Rig/Platform Name/Num: PATTERSON 901							
Job BOM: 7521 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199				Srv Supervisor: Kendall Broom - H194727							
Job											
Formation Name											
Formation Depth (MD)		Top				Bottom					
Form Type						BHST					
Job depth MD		1630ft				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	0	9.625	8.921	36	8 RD	J-55	0	1604	0	1604	
Open Hole Section			13.5				0	1630	0	1630	
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			1604		Bottom Plug	9.625		HES		
Float Collar	9.625					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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Red Dye Spacer	Red Dye Spacer			10	bbl	8.33				

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		550	sack	13.5	1.74		5	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		120	bbl	8.33				
Cement Left In Pipe		Amount	43 ft			Reason			Shoe Joint	
Comment										

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	3/28/2018	23:00:00	USER				Called crew out to be on location at 0600
Event	2	Depart Shop for Location	Depart Shop for Location	3/29/2018	05:00:00	USER				Held a safety huddle before leaving for location
Event	3	Arrive At Loc	Arrive At Loc	3/29/2018	05:45:00	USER				Arrived on location and met with the company man
Event	4	Rig-up Lines	Rig-up Lines	3/29/2018	05:55:53	USER	0.00	0.03	-42.00	Held a hazard hunt before spotting in the trucks and rigging up
Event	5	Safety Meeting	Safety Meeting	3/29/2018	08:00:00	USER	0.00	0.05	-45.00	Held a safety meeting with the crew to discuss the operation and safety
Event	6	Start Job	Start Job	3/29/2018	08:45:09	COM5	0.00	8.39	-42.00	Filled lines with 3 bbls water
Event	7	Test Lines	Test Lines	3/29/2018	08:58:01	COM5	0.00	8.19	101.00	Test line to 3000 psi. we did the 500 psi kick out and the 5th gear stall.
Event	8	Pump Spacer 1	Pump Spacer 1	3/29/2018	09:00:33	COM5	0.00	8.22	96.00	Pumped 10 bbls water spacer. Pumped at 2.5 bpm and 250 psi
Event	9	Pump Spacer 2	Pump Spacer 2	3/29/2018	09:04:36	COM5	3.00	8.23	169.00	Pumped 10 bbls water spacer with red dye. Pumped at 2.5 bpm and 250 psi
Event	10	Check Weight	Check weight	3/29/2018	09:08:16	COM5	0.00	8.18	124.00	Verified weight with pressurized scales

Event	11	Pump Cement	Pump Cement	3/29/2018	09:08:33	COM5	0.10	8.17	116.00	Pumped 177.44 bbls SwiftCem. 550 sks, 13.5#, 1.74 yield , 9.2 gal/sks. pumped at 5 bpm and 250 psi
Event	12	Shutdown	Shutdown	3/29/2018	09:47:55	COM5	0.00	13.36	50.00	Shut down and washed up cement head
Event	13	Drop Top Plug	Drop Top Plug	3/29/2018	09:51:34	COM5	1.30	11.39	76.00	Dropped plug preloaded and witnessed by the company man
Event	14	Pump Displacement	Pump Displacement	3/29/2018	09:57:52	COM5	1.30	0.14	3.00	Pumped 120 bbls water displacement. Got 27 bbls cement back to surface.
Event	15	Bump Plug	Bump Plug	3/29/2018	10:18:21	COM5	0.00	8.18	-10.00	Bumped plug at 450 psi final lift and climbed to 950 psi
Event	16	End Job	End Job	3/29/2018	10:18:33	COM5	0.00	8.18	-12.00	
Event	17	Rig Down Lines	Rig Down Lines	3/29/2018	10:26:23	USER				Held a safety meeting before rigging down lines
Event	18	Depart Location	Depart Location	3/29/2018	11:30:00	USER				Held a safety huddle before leaving location

3.0 Job Charts

3.1 Job Chart

