

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

Coyote Trails 33W-15-10N Surface

Sincerely,
Meghan Jacobs

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 **Coyote Trails 33W-15-10N** 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 19 bbls 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 Fort Lupton

The Road to Excellence Starts with Safety

Sold To #: 369404		Ship To #: 3912706		Quote #:		Sales Order #: 0905663713					
Customer: EXTRACTION OIL & GAS -						Customer Rep: JUSTIN HUMPHRIES					
Well Name: COYOTE TRAILS				Well #: 33W-15-10N		API/UWI #: 05-123-48252-00					
Field: WATTENBERG		City (SAP): ERIE		County/Parish: WELD		State: COLORADO					
Legal Description: SW SE-28-1N-68W-1149FSL-2337FEL											
Contractor: Justin Humphries					Rig/Platform Name/Num: Cartel 15						
Job BOM: 7521 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199					Srv Supervisor: Jerald Watson						
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type					BHST						
Job depth MD		1639ft			Job Depth TVD		1639'				
Water Depth					Wk Ht Above Floor		0'				
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	
Open Hole Section			13.5					1640			
Casing		9.625	8.921	36				1639			
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	1	HES	1639		Bottom Plug	9.625		HES		
Float Collar	9.625	1	HES	1600		SSR plug set	9.625		HES		
Insert Float	9.625					Plug Container	9.625	1	HES		
Stage Tool	9.625					Centralizers	9.625	4	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			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	SWIFTCCEM (TM) SYSTEM		550	sack	13.5	1.74		8	9.2
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		124	bbl	8.33			8	
Cement Left In Pipe		Amount	39 ft			Reason			Shoe Joint	

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)	DS Pump Press (psi)	Comments
Event	1	Arrive at Location from Other Job or Site	Arrive at Location from Other Job or Site	5/2/2019	20:00:00	USER				RIG PULLING DRILLPIPE UPON ARRIVAL, REQUESTED O/L 2300.
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	5/3/2019	04:15:00	USER				TEST WATER, CHECK MATERIALS, GET NUMBERS FROM THE COMPANY MAN AND TALK ABOUT SPOTTING EQUIPMENT.
Event	3	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	5/3/2019	04:30:00	USER				DISCUSS HAZARDS ASSOCIATED WITH TASK
Event	4	Rig-Up Equipment	Rig-Up Equipment	5/3/2019	04:45:00	USER				RIG UP ALL EQUIPMENT
Event	5	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/3/2019	06:15:00	USER	0.10	0.00	1.00	DISCUSS HAZARDS ASSOCIATED WITH THE JOB WITH EVERYONE INVOLVED WITH THE JOB AS WELL AS WHAT NEEDS TO BE DONE IN CASE OF EMERGENCY OR IF WE NEED TO EVACUATE LOCATION.
Event	6	Test Lines	Test Lines	5/3/2019	06:36:54	COM4	0.00	8.55	105.00	TEST LINES TO 2000 PSI
Event	7	Pump Spacer 1	Pump Spacer 1	5/3/2019	06:38:47	COM4	0.00	8.25	35.00	10 DYED H2O, 4 BPM, 112 PSI, 8.33 PPG
Event	8	Pump Cement	Pump Cement	5/3/2019	06:43:13	COM4	8.10	12.98	245.00	170 CEMENT, 8 BPM, 300 PSI, 550 SKS, 13.5 PPG, 1.74 YIELD, 9.2 GAL/SK
Event	9	Drop Top Plug	Drop Top Plug	5/3/2019	07:05:28	COM4	0.00	14.44	102.00	HES PLUG
Event	10	Pump Displacement	Pump Displacement	5/3/2019	07:06:13	USER	4.20	17.71	19.00	124 H2O, 10 BPM, 200 PSI, 8.33 PPG, 19 BBL CEMENT TO SURFACE
Event	11	Bump Plug	Bump Plug	5/3/2019	07:24:03	COM4	0.00	8.17	1134.00	BUMP AT 550 PSI, TOOK TO 1150 PSI
Event	12	Other	CHECK FLOATS	5/3/2019	07:25:10	COM4	0.00	8.16	1160.00	1 BBL BACK
Event	13	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	5/3/2019	07:30:00	USER				DISCUSS HAZARDS INVOLVED AND IF ANYTHING IS STAYING ON LOCATION
Event	14	Rig-Down Equipment	Rig-Down Equipment	5/3/2019	07:45:00	USER				RIG DOWN ALL EQUIPMENT

Event	15	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/3/2019	08:15:00	USER	CHECK WITH EVERYONE TO SEE IF THEY ARE FIT TO DRIVE AND LEGAL TO DRIVE AND SEE WHAT THEIR PLANS ARE AS WELL AS DISCUSS ANY OTHER JOB THAT MAY NEED TO BE COVERED AFTER LEAVING LOCATION.
Event	16	Crew Leave Location	Crew Leave Location	5/3/2019	08:30:00	USER	EVERYONE LEAVES LOCATION

3.0 Attachments

3.1 Coyote Trails 33W-15-10N Surface – Job Chart

