

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

COYOTE TRAILS 33S-20-1N 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 33S-20-1N** 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 12 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 #: 3951535		Quote #:		Sales Order #: 0905664307					
Customer: EXTRACTION OIL & GAS -						Customer Rep: JUSTIN HUMPHRIES					
Well Name: COYOTE TRAILS				Well #: 33S-20-1N		API/UWI #: 05-123-49914-00					
Field: WATTENBERG		City (SAP): ERIE		County/Parish: WELD		State: COLORADO					
Legal Description: SW SE-28-1N-68W-1149FSL-2301FEL											
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		1620ft			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	
Open Hole Section			13.5				0	1620			
Casing		9.625	8.921	36			0	1620			
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	9.625			1620		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 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	SWIFTCM (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	ft	Reason			Shoe Joint		
Mix Water:		pH ##	Mix Water Chloride:## ppm			Mix Water Temperature:## °F °C			
Cement Temperature:## °F °C		Plug Displaced by:## lb/gal kg/m3 XXXX			Disp. Temperature:## °F °C				
Plug Bumped?		Yes/No	Bump Pressure:#### psi MPa			Floats Held?Yes/No			
Cement Returns:## bbl m3		Returns Density:## lb/gal kg/m3			Returns Temperature:## °F °C				
Comment									

2.0 Real-Time Job Summary

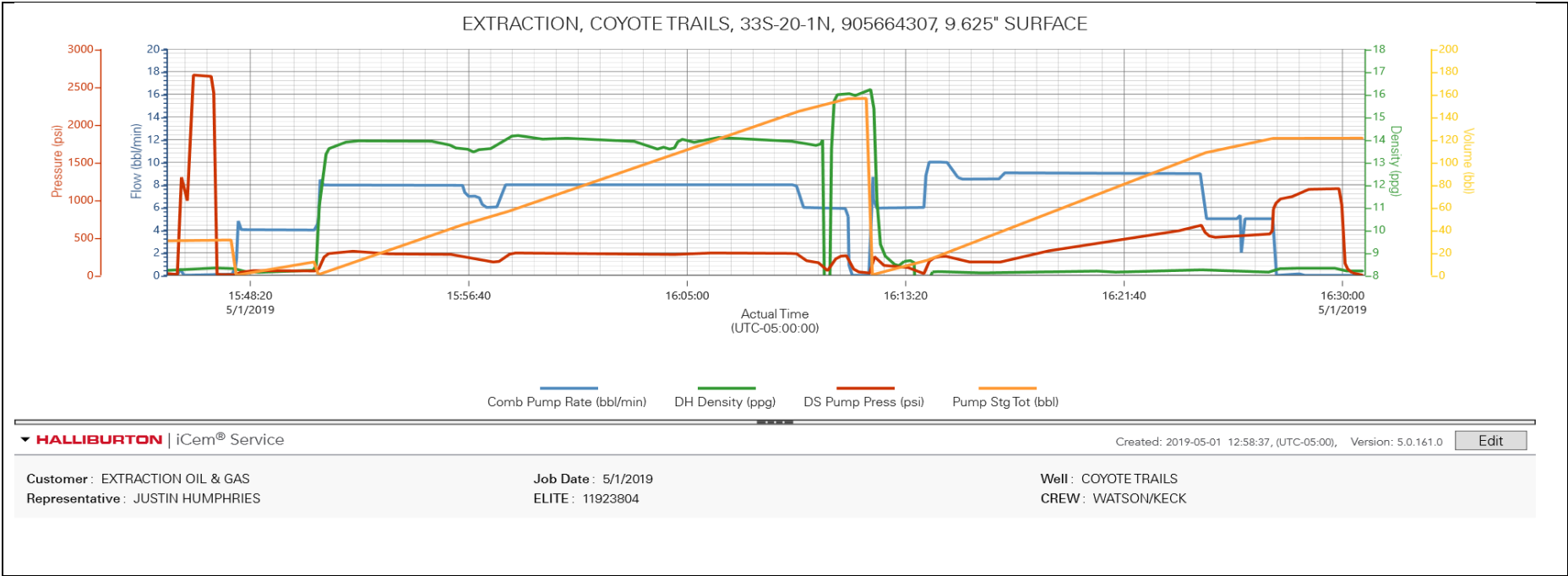
2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Arrive at Location from Other Job or Site	Arrive at Location from Other Job or Site	5/1/2019	11:00:00	USER					REQUESTED O/L 1030, RIG PULLING DRILL PIPE UPON ARRIVAL
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	5/1/2019	11:15:00	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	5/1/2019	11:30:00	USER					DISCUSS HAZARDS ASSOCIATED WITH TASK
Event	4	Rig-Up Equipment	Rig-Up Equipment	5/1/2019	11:45:00	USER					RIG UP ALL EQUIPMENT
Event	5	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/1/2019	15:30:00	USER	0.00	8.11	0.00	26.50	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	5/1/2019	15:45:33	COM4	0.10	8.24	11.00	31.10	TEST LINES TO 2000 PSI
Event	7	Pump Spacer 1	Pump Spacer 1	5/1/2019	15:47:40	COM4	0.10	8.29	5.00	31.20	10 DYED H2O, 4 BPM, 62 PSI, 8.33 PPG
Event	8	Pump Cement	Pump Cement	5/1/2019	15:50:48	COM4	4.00	8.23	58.00	11.90	160 CEMENT, 8 BPM, 282 PSI, 515 SACKS, 13.5 PPG, 1.74 YIELD, 9.2 GAL/SK
Event	9	Drop Top Plug	Drop Top Plug	5/1/2019	16:11:16	COM4	0.00	16.01	111.00	156.30	HES PLUG

Event	10	Pump Displacement	Pump Displacement	5/1/2019	16:11:56	COM4	0.00	16.24	25.00	156.30	118 H2O, 10 BPM, 247 PSI, 8.33 PPG, 12 BBL CEMENT TO SURFACE.
Event	11	Bump Plug	Bump Plug	5/1/2019	16:27:39	COM4	0.00	8.29	1018.00	121.20	BUMP AT 500 PSI, TOOK TO 1150 PSI
Event	12	Other	CHECK FLOATS	5/1/2019	16:29:55	COM4	0.00	8.31	1149.00	121.20	1 BBL BACK
Event	13	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	5/1/2019	16:35:00	USER					DISCUSS HAZARDS INVOLVED AND IF ANYTHING IS STAYING ON LOCATION
Event	14	Rig-Down Equipment	Rig-Down Equipment	5/1/2019	16:45:00	USER					RIG DOWN ALL EQUIPMENT
Event	15	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/1/2019	17:45:00	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	5/1/2019	18:00:00	USER					EVERYONE LEAVES LOCATION

3.0 Attachments

3.1 Coyote Trails 33S-20-1N Surface- Job Chart



4.0 Custom Graphs

4.1 Job Chart with Events

