

HALLIBURTON

iCem[®] Service

EXTRACTION OIL & GAS

United States of America

Date: Saturday, October 29, 2016

Burroughs North #1

Surface

Job Date: Thursday, October 20, 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 **Burroughs North #1** 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.

48 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]

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 369404	Ship To #: 3617658	Quote #:	Sales Order #: 0903607297							
Customer: EXTRACTION OIL & GAS -		Customer Rep: Larry Siegel								
Well Name: BURROUGHS NORTH	Well #: 1	API/UWI #: 05-123-40459-00								
Field: WATTENBERG	City (SAP): AULT	County/Parish: WELD	State: COLORADO							
Legal Description: NE NE-14-7N-65W-760FNL-355FEL										
Contractor:		Rig/Platform Name/Num: Spud Rig								
Job BOM: 7521										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX38199		Srv Supervisor: Bradley Hinkle								
Job										
Formation Name										
Formation Depth (MD)	Top	Bottom								
Form Type		BHST								
Job depth MD	1571ft	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		9.625	8.921	36			0	1571	0	1571
Open Hole Section			13.5				0	1572	0	1572
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make		
Guide Shoe	9.625				Top Plug	9.625		HES		
Float Shoe	9.625			1571	Bottom Plug	9.625		HES		
Float Collar	9.625			1526	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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Red Dye Fresh Water	10	bbl	8.33			3		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	SwiftCem	SWIFTCM (TM) SYSTEM	600	sack	13.5	1.74	9.2	8		
9.20 Gal			FRESH WATER							

last updated on 10/20/2016 11:21:12 AM

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Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Fresh Water	Fresh Water	118	bbl	8.33			8	
Cement Left In Pipe		Amount		42 ft				Reason	
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 48 bbls cement to surface.									

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	10/20/2016	21:00:00	USER	Crew called out for an on location of 0100. Crew was Bradley Hinkle, Luke Kosakewich, James Bunnell and John Camper.
Event	2	Depart Shop for Location	Depart Shop for Location	10/20/2016	23:05:00	USER	Pre-journey safety meeting prior to departure.
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	10/20/2016	00:30:00	USER	Perform a site assessment and Pre rig-up safety meeting. Rig pulling drill pipe.
Event	4	Start Job	Start Job	10/20/2016	09:34:26	COM5	Pump 10 bbls water to establish good circulation.
Event	5	Test Lines	Test Lines	10/20/2016	09:38:51	COM5	Pressure test lines with a 500 PSI EKO test.
Event	6	Pump Spacer 1	Pump Spacer 1	10/20/2016	09:43:15	COM5	Pump 10 bbls red-dye water.
Event	7	Pump Cement	Pump Cement	10/20/2016	09:53:43	COM5	Pump 186 bbls (600 sacks) SwiftCem mixed at 13.5 ppg. Density verified by pressurized scales.
Event	8	Safety Meeting	Safety Meeting	10/20/2016	09:57:56	USER	Pre-job safety meeting with all personnel on location.
Event	9	Check Weight	Check weight	10/20/2016	10:05:27	COM5	Cement weighed at 13.5 ppg.
Event	10	Check Weight	Check weight	10/20/2016	10:13:03	COM5	Cement weighed at 13.5 ppg.
Event	11	Shutdown	Shutdown	10/20/2016	10:22:43	COM5	
Event	12	Drop Top Plug	Drop Top Plug	10/20/2016	10:22:51	COM5	Top plug preloaded.
Event	13	Pump Displacement	Pump Displacement	10/20/2016	10:22:57	COM5	Pump 118 bbls fresh water. Good returns throughout. Cement to surface at 70 bbls away for a total of 48 bbls to surface.
Event	14	Bump Plug	Bump Plug	10/20/2016	10:48:34	COM5	Bump plug at 488 PSI and brought to 1000 PSI.
Event	15	Pressure Up Well	Pressure Up Well	10/20/2016	10:49:39	COM5	Increased pressure to 1500 PSI for a 15 minute casing test.
Event	16	End Job	End Job	10/20/2016	11:02:49	USER	
Event	17	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	10/20/2016	11:10:00	USER	Pre rig-down safety meeting.
Event	18	Depart Location for	Depart Location for	10/20/2016	12:00:00	USER	Pre-journey safety meeting prior to departure.

Service Center or Other Site	Service Center or Other Site
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3.0 Attachments

3.1 EXTRACTION BURROUGHS NORTH #1 SURFACE.png

