

# HALLIBURTON

iCem<sup>®</sup> Service

## EXTRACTION OIL & GAS

Date: Monday, August 29, 2016

### **Winder South #7**

Surface

Job Date: Wednesday, August 17, 2016

Sincerely,  
Lauren Roberts

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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **Winder South #7** 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.

**35 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]**

## HALLIBURTON

## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 369404		Ship To #: 3749889		Quote #:		Sales Order #: 0903476254				
Customer: EXTRACTION OIL & GAS -				Customer Rep: Jose Torres						
Well Name: WINDER SOUTH		Well #: 7		API/UWI #: 05-123-43401-00						
Field: WATTENBERG	City (SAP): WINDSOR	County/Parish: WELD		State: COLORADO						
Legal Description: SE NE-9-6N-67W-2306FNL-408FEL										
Contractor: White Mountain Drilling		Rig/Platform Name/Num: White Mountain 272								
Job BOM: 7521										
Well Type: HORIZONTAL OIL										
Sales Person: HALLAMERICA\IX38199				Srvc Supervisor: Bradley Hinkle						
<b>Job</b>										
Formation Name										
Formation Depth (MD)		Top	Bottom							
Form Type		BHST								
Job depth MD		1553ft	Job Depth TVD							
Water Depth		Wk Ht Above Floor								
Perforation Depth (MD)		From	To							
<b>Well Data</b>										
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	1561	0	1561
Open Hole Section			13.5				0	1561	0	1561
<b>Tools and Accessories</b>										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	9.625	1		1561		Top Plug	9.625	1	N/A	
Float Shoe	9.625					Bottom Plug	9.625		HES	
Float Collar	9.625	1		1519		SSR plug set	9.625		HES	
Insert Float	9.625					Plug Container	9.625		HES	
Stage Tool	9.625					Centralizers	9.625		HES	
<b>Fluid Data</b>										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Red Dyed Water	10	bbl	8.33			3.5		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	SwiftCem	SWIFTCM (TM) SYSTEM	565	sack	13.5	1.74		6	9.19	
9.19 Gal		FRESH WATER								

last updated on 8/17/2016 4:03:56 PM

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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	Displacement	Water Based Mud	117	bbl	8.80			8	
Cement Left In Pipe		Amount	42 ft	Reason				Shoe Joint	
Comment 35 barrels cement to surface.									

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Combined Pump Rate (bbl/min)	Downhole Density (ppg)	Pass-Side Pump Pressure (psi)	Comments
Event	1	Call Out	Call Out	8/17/2016	06:00:00	USER				Crew called out. Crew was, Brad Hinkle, Luke Kosakewich, Nathaniel Moore and Alfonso Ibarra.
Event	2	Depart Shop for Location	Depart Shop for Location	8/17/2016	10:00:00	USER				Pre-journey safety meeting.
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	8/17/2016	11:15:00	USER				Arrive at location and perform a site assessment and pre-rig up safety meeting. Rig had just begun to run casing.
Event	4	Safety Meeting	Safety Meeting	8/17/2016	14:00:00	USER				Pre-job safety meeting with all personnel on location.
Event	5	Start Job	Start Job	8/17/2016	14:18:48	COM4	0.00	8.17	-92.00	
Event	6	Test Lines	Test Lines	8/17/2016	14:22:08	COM4	0.00	7.96	1920.00	Pressure test lines.
Event	7	Pump Spacer 1	Pump Spacer 1	8/17/2016	14:29:33	COM4	1.10	8.09	-7.00	Pump 10 bbls red-dyed water.
Event	8	Pump Cement	Pump Cement	8/17/2016	14:36:20	COM4	2.40	9.50	20.00	Pump 175 bbls (565 sacks) SwiftCem mixed at 13.5 ppg. Density verified by pressurized scales.
Event	9	Check Weight	Check weight	8/17/2016	14:42:49	COM4	6.00	13.50	83.00	Cement weighed up at 13.6 ppg.
Event	10	Check Weight	Check weight	8/17/2016	14:52:51	COM4	6.00	13.51	87.00	Cement weighed up at 13.5 ppg.
Event	11	Shutdown	Shutdown	8/17/2016	15:08:48	COM4	0.00	1.40	-7.00	
Event	12	Drop Top Plug	Drop Top Plug	8/17/2016	15:10:38	COM4	1.10	4.51	-17.00	Top plug preloaded in plug container.
Event	13	Pump Displacement	Pump Displacement	8/17/2016	15:10:43	COM4	3.40	9.47	-7.00	Pump 117 bbls mud. Good returns throughout. 35 bbls Cement back to surface.
Event	14	Other	Other	8/17/2016	15:23:07	COM4	6.80	8.30	388.00	Red Dye Spacer observed at surface at 66 bbls away.
Event	15	Other	Other	8/17/2016	15:26:30	COM4	6.40	8.29	484.00	Cement observed at surface at 82 bbls away.
Event	16	Bump Plug	Bump Plug	8/17/2016	15:33:54	COM4	3.20	7.98	695.00	Bump plug at 504 PSI and brought to 1000 PSI. Held for a minute.

Event	17	Check Floats	Check Floats	8/17/2016	15:35:07	USER	0.00	8.01	268.00	Floats held. 0.5 bbl back.
Event	18	End Job	End Job	8/17/2016	15:35:40	COM4	0.00	8.01	-5.00	
Event	19	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	8/17/2016	15:36:00	USER	0.00	8.01	-11.00	Pre-rig down safety meeting with HES personnel.
Event	20	Depart Location	Depart Location	8/17/2016	16:45:00	USER				Pre-journey safety meeting.



3.0 Attachments

3.1 903476254 Extraction Surface White Mountain 272.png

