

# HALLIBURTON

iCem<sup>®</sup> Service

## **PETROSTAR SERVICES**

Ft. Lupton District, Colorado

**For: Aaron Smith**

Date: Wednesday, July 17, 2019

## **Wilmoth**

Weld, Wattenberg

Case 1

Job Date: Wednesday, July 17, 2019

Sincerely,

**Jamar Horton**

## Legal Notice

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### Disclaimer:

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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 cement 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 XX 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**

### 1.2 Squeeze Job Information

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		Units	Description
1	Was the well full prior to cementing?	Y/N	
2	Injection Rate #1 & Pressure	psi/bpm	
3	Injection Rate #2 & Pressure	psi/bpm	
4	Injection Rate #3 & Pressure	psi/bpm	
5	Initial ISIP	psi	
6	Density of fluid used for Initial ISIP	lb/gal	
7	Final ISIP	psi	
8	Density of displacement fluid	lb/gal	

### 1.3 Plug Job Information

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		Units	Description
1	Density of well fluid exiting well prior to job	lb/gal	
2	Density of well fluid entering well prior to job	lb/gal	
3	Was the well full prior to cementing?	Y/N	
4	How many joints of workstring pulled wet?	# Joints	
5	Depth of workstring for circulation after the plug?	ft	
6	Calculated Plug Height (workstring out)	ft	

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Comment	Comment	7/10/2019	07:05:00	USER					Csg 4 1/2" 11.6# CSurf Csg 8 5/8", 24 seen Cement to surface.
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	7/17/2019	06:00:00	USER					Journey Management meeting held prior to departure. journey called into dispatch and approved.
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	7/17/2019	07:00:00	USER					With all Equipment and materials. Hazard hunt performed before spotting in equipment. discussed numbers and job procedures with customer.
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/17/2019	07:15:00	USER					JSA with all essential personnel to discuss the hazards of rigging up .
Event	5	Rig-Up Completed	Rig-Up Completed	7/17/2019	07:30:00	USER					Safely with no injuries.
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	7/17/2019	08:00:00	USER					JSA with all essential personnel to discuss the job procedures and the hazards of the job.
Event	7	Start Job	Start Job	7/17/2019	08:20:12	COM4	-16.00	8.33	0.00	0.00	Start recording data.
Event	8	Pump Cement	Pump Cement	7/17/2019	08:29:02	COM4	-16.00	0.16	0.00	0.00	67sk 14bbl 15.8ppg 1.17yd 5.16gal/sk verified with pressurized scales.
Event	9	End Job	End Job	7/17/2019	09:02:10	COM4	-15.00	23.66	0.00	7.60	Stop recording data.
Event	10	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	7/17/2019	09:15:00	USER					JSA with all essential personnel to discuss the

Event	11	Comment	Comment	7/17/2019	09:24:50	USER	hazards of rigging down.
Event	12	Rig-Down Completed	Rig-Down Completed	7/17/2019	09:30:00	USER	"".....Thank You for choosing Halliburton.....""
Event	13	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	7/17/2019	09:40:00	USER	Safely with no injuries.
							Journey Management meeting held prior to departure. journey called into dispatch and approved.

3.0 Attachments

3.1 Case 1-Custom Results.png



