

# HALLIBURTON

iCem<sup>®</sup> Service

## **CIVITAS RESOURCES-EBUS**

Ft. Lupton District, CO

**For: Manny Parras**

Date: Friday, October 3, 2025

**La Plata**

Arapahoe

La Plata 13-14-15-16 1BH

Job Date: Friday, October 3, 2025

Sincerely,

**Mike Loughran**

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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 **La Plata 13-14-15-16 1BH – Production Casing**. 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.

- **Quality of circulation – Prejob 100% , While pumping Cement 100%, While Pumping Displacement 100%**
- **Final Circulating Pressure and Pump Rate 2450/3**
- **Returns to Surface 120 spacer / 57 lead**
- **Any deviation from plan: No**
- **Abnormalities on job chart: No**

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 Rockies Cement Team**

## 1.2 Job Overview

Job Details	
API #:	05-005-07594-00
City, County:	Watkins, Arapahoe
SO#:	910360167

Job Times		
	Date (mm/dd/yyyy)	Time (hh:mm)
Requested Time On Location:	10/3/2025	0700
Called Out Time:	10/3/2025	0030
Arrived On Location:	10/3/2025	0530
Job Started:	10/3/2025	1304
Job Completed:	10/3/2025	1734
Departed Location:	10/3/2025	2000

	Description	Units	Value
1	Surface temperature at the time of the job	degree F	76
2	Mud type (OBM, WBM, Synthetic, Water, Brine)	-	obm
3	Mud density	ppg	9.4
4	Casing set depth (shoe)	ft	25619
5	TVD	ft	8086
6	Float collar depth	ft	25614
7	Length of rate hole	ft	4.3
8	Previous casing shoe depth	ft	3605
9	Pre-job mud circulation time	hh:mm	2:00
10	Pre-job mud circulation rate	bpm	11

11	Pre-job mud circulation volume	bbls	1075
12	Mud circulation pressure at start of cement	psi	1075
13	Annual flow before the start of job	Y/N	Y
14	Pipe movement during cement job	Y/N	N
15	Calculated displacement	bbls	600
16	Job displaced by	Rig/HES	HES
17	Estimated returns % during job	%	100
18	Fluid returns to surface	Spacer/Cement, bbls	120/57
19	Final circulation pressure, rate prior to plug bump	psi @ bpm	2450/3
20	Number of Centralizers	-	
21	Number of bottom plugs	-	1
22	Number of trucks used preparing/during job	-	
23	Add hours? If Yes, put #	Y/N and hours	3
24	NPT? If Yes, put #	Y/N and hours	0

## 1.3 Water Field Test

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	Recorded Value	Unit	Acceptable Limit	Potential Problems if Values Exceed the Limit
<b>pH</b>	7		6.0 - 8.0	Chemicals in water can cause severe retardation
<b>Temperature</b>	69	F	60 - 80 F	Can can pre-mature setting of cement
<b>Chlorides</b>	LESS 200	ppm	3000 ppm	Can shorten thickening time

## 1.4 Actual Pump Schedule

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### Stage 1

	Density (ppg)	Volume (bbls)	Yield (ft <sup>3</sup> /sk)	Water Requirement (gal/sk)	Bulk Sacks (sks)	Total Water (gals)
<b>Spacer Fluid</b>	11.5	120	2.58	16.38	261.2	4295
<b>Cap Cement</b>	13	156.8	1.59	7.71	555	4280
<b>Lead Cement</b>	13	161.1	1.52	7.11	595	4231
<b>Tail Cement</b>	13.2	809.4	1.78	8.5	2560	21760
<b>Top Plug</b>	1					
<b>Displacement Fluid</b>	8.33	600				25200

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq No.	Activity	Graph Label	Date	Time	Source	Dwnhole Density (ppg)	Cmb Pump Rate (bbl/min)	Pump A Pressure (psi)	Cmb Stg Total (bbl)	Comments
Event	1	Call Out	Call Out	10/3/2025	00:30:00	USER					CREW CALLED OUT AT 0030 HOURS ON 10/03/2025
Event	2	Crew Leave Yard	Crew Leave Yard	10/3/2025	04:00:00	USER					CREW LEAVES YARD
Event	3	Arrive At Loc	Arrive At Loc	10/3/2025	05:30:00	USER					CREW ARRIVES AT LOCATION
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	10/3/2025	05:40:00	USER					DISCUSS HAZARDS OF RIGGING UP
Event	5	Rig-Up Equipment	Rig-Up Equipment	10/3/2025	05:45:00	USER					RIG UP
Event	6	Rig-Up Completed	Rig-Up Completed	10/3/2025	08:00:00	USER					RIG UP COMPLETED
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	10/3/2025	12:44:54	USER	8.46	0.00	-0.14	59.19	DISCUSS HAZARDS OF JOB, HAZARDS OF HALLIBURTON EQUIPMENT, HAZARDS OF PRESSURE. RIG CIRCULATES APPROX 1200 BBLS. 11 BPM / 1500 PSI

Event	8	Start Job	Start Job	10/3/2025	13:04:43	NONE	8.46	0.00	-0.37	0.00	BEGIN RECORDING DATA
Event	9	Drop Bottom Plug	Drop Bottom Plug	10/3/2025	13:05:26	NONE	8.46	0.00	0.16	0.00	CITADEL BOTTOM PLUG
Event	10	Pressure Test	Pressure Test	10/3/2025	13:09:54	USER	8.40	0.00	1437.10	3.35	TEST HES LINES 6600 PSI
Event	11	Pump Spacer 1	Pump Spacer 1	10/3/2025	13:16:19	NONE	8.40	0.00	4.36	0.00	120 BBLS TUNED PRIME SPACER. 11.5 PPG. MIX D-AIR ON FLY. USED 45 GALLONS D-AIR TOTAL JOB.
Event	12	Pump Cap Cement	Pump Cap Cement	10/3/2025	13:37:01	NONE	11.57	7.00	184.85	0.06	555 SACKS ELASTICEM CAP CEMENT. 156.8 BBLS. 13 PPG. TOCC=0'
Event	13	Pump Lead Cement	Pump Lead Cement	10/3/2025	13:56:42	NONE	12.35	9.23	379.81	0.15	595 SACKS ISOBOND LEAD CEMENT, 161.1 BBLS., 13 PPG. ESTIMATED TOLC=2361'
Event	14	Pump Tail Cement	Pump Tail Cement	10/3/2025	14:24:41	NONE	13.18	9.29	528.95	0.15	2560 SACKS ELASTICEM TAIL CEMENT, 809.4 BBLS, 13.2 PPG, ESTIMATED TOTC=6359' (OPERATOR SENT TAIL EVENT LATE)
Event	15	Shutdown	Shutdown	10/3/2025	16:02:01	NONE	13.25	0.00	152.71	883.74	SHUTDOWN

Event	16	Clean Lines	Clean Lines	10/3/2025	16:03:42	NONE	15.06	0.00	2.81	883.74	SHUT IN WELL, CLEAN PUMPS AND LINES
Event	17	Shutdown	Shutdown	10/3/2025	16:09:18	NONE	8.33	4.81	354.00	905.11	SHUTDOWN
Event	18	Drop Top Plug	Drop Top Plug	10/3/2025	16:10:01	NONE	0.08	0.00	12.77	905.43	CITADEL TOP PLUG
Event	19	Pump Displacement	Pump Displacement	10/3/2025	16:10:42	NONE	-0.04	0.00	3.85	0.00	600 BBLS FRESH WATER DISPLACEMENT. FIRST 20 BBLS HAS 10 GALLONS MICRO MATRIX CEMENT RETARDER. REMAINING DISPLACEMENT HAS 10 GALLONS RIG PROVIDED AQUACAR GA25 BIOCID
Event	20	Slow Rate	Slow Rate	10/3/2025	17:23:22	USER	8.45	7.11	2949.70	581.36	SLOW RATE
Event	21	Bump Plug	Bump Plug	10/3/2025	17:29:55	NONE	8.41	3.04	2453.55	601.97	FCP 2450 PSI/3 BPM. PRESSURE UP, DISC RUPTURES AT 3500 PSI. PUMP 5 BBL WET SHOE AT 3 BPM/2600 PSI

Event	22	Check Floats	Check Floats	10/3/2025	17:32:32	USER	8.40	0.00	2371.14	609.71	RELEASE PRESSURE, 4.5 BBLS. BACK, FLOATS HOLD, APPROX 57 BBLS CEMENT TO SURFACE. USED 10 GALLONS MMCR FOR CEMENT RETURNS
Event	23	End Job	End Job	10/3/2025	17:34:34	NONE	8.28	0.00	4.19	0.00	STOP RECORDING DATA. FLUSH RIGS CHOKE
Event	24	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	10/3/2025	18:00:00	USER					DISCUSS HAZARDS OF RIGGING DOWN
Event	25	Rig-Down Equipment	Rig-Down Equipment	10/3/2025	18:05:00	USER					RIG DOWN
Event	26	Rig-Down Completed	Rig-Down Completed	10/3/2025	19:00:00	USER					RIG DOWN EQUIPMENT
Event	27	Crew Leave Location	Crew Leave Location	10/3/2025	20:00:00	USER					CREW DEPARTS LOCATION

3.0 Attachments

3.1 La Plata 13-14-15-16 1BH Job 1.png

