

# HALLIBURTON

iCem<sup>®</sup> Service

## **CIVITAS RESOURCES-EBUS**

Ft. Lupton District, Colorado

**For: Manny Parras**

Date: Thursday, July 17, 2025

**Civitas 6" Production Quicksilver 3-65 16-17-18-13 4AH**

Watkins, Adams

Sincerely,

**Jacob Chavez and Crew**

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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 **Civitas 6" Production Quicksilver 3-65 16-17-18-13 4AH**. 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 – 100% THROUGHOUT JOB**
- **Final Circulating Pressure and Pump Rate Psi bbl/min**
- **Returns to Surface 55 BBL OF CEMENT**
- **Any deviation from plan- PUMPED AS PLANNED**
- **Abnormalities on job chart- NONE**

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**

## 1.1 Job Overview

<b>API #:</b>	05-001-10628
<b>City, County:</b>	Watkins, Adams
<b>SO#:</b>	910192385

Job Times		
	Date (mm/dd/yyyy)	Time (hh:mm)
<b>Requested Time On Location:</b>	07/16/2025	20:00
<b>Called Out Time:</b>	07/16/2025	14:00
<b>Arrived On Location:</b>	07/16/2025	19:00
<b>Job Started:</b>	07/17/2025	04:53
<b>Job Completed:</b>	07/17/2025	9:21
<b>Departed Location:</b>	07/17/2025	10:30

	Description	Units	Value
1	Surface temperature at the time of the job	Degrees	72
2	Mud type (OBM, WBM, Synthetic, Water, Brine)	-	OBM
3	Mud density	ppg	9.2
4	Casing set depth (shoe)	ft	28468
5	TVD	ft	7960
6	Float collar depth	ft	28462
7	Length of rate hole	ft	13
8	Previous casing shoe depth	ft	3339
9	Pre-job mud circulation time	hh:mm	2:00
10	Pre-job mud circulation rate	bpm	12

11	Pre-job mud circulation volume	bbls	1100
12	Mud circulation pressure at start of cement	psi	1250
13	Annual flow before the start of job	Y/N	Y
14	Pipe movement during cement job	Y/N	Y
15	Calculated displacement	bbls	745.7
16	Job displaced by	Rig/HES	HES
17	Estimated returns % during job	%	100
18	Fluid returns to surface	Spacer/Cement, bbls	55 BBL CEMENT
19	Final circulation pressure, rate prior to plug bump	psi @ bpm	2400 PSI 4 BBL/MIN
20	Number of Centralizers	-	275
21	Number of bottom plugs	-	1
22	Number of trucks used preparing/during job	-	6
23	Add hours? If Yes, put #	Y/N and hours	n
24	NPT? If Yes, put #	Y/N and hours	n

	Recorded Value	Unit	Acceptable Limit	Potential Problems if Values Exceed the Limit
<b>pH</b>	7.0		6.0 - 8.0	Chemicals in water can cause severe retardation
<b>Temperature</b>	65	F	60 - 80 F	Can can pre-mature setting of cement
<b>Chlorides</b>	~300	ppm	3000 ppm	Can shorten thickening time

Stage 1

	Density (ppg)	Volume (bbls)	Yield (ft <sup>3</sup> /sk)	Water Requirement (gal/sk)	Bulk Sacks (sks)	Total Water (gals)
Spacer Fluid	11.5	120	2.57	16.2	262.2	4248
Cap Cement	13	157.2	1.59	7.71	555	4279
Lead Cement	13	144.8	1.52	7.11	535	3804
Tail Cement	13.2	884.5	1.78	8.5	2790	23715
Top Plug	1					
Displacement Fluid	H2O	745.7				31319

## 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/mi n)	Pump A Pressure (psi)	Cmb Stg Total (bbl)	Comments
Event	1	Call Out	Call Out	7/16/2025	14:00:00	USER					CREW CALLED OUT FOR FOR JOB.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	7/16/2025	17:55:00	USER					PRE-CONVOY SAFETY MEETING AT HES LOCATON TO DISCUSS ROUTE AND DRIVING HAZARDS.
Event	3	Crew Leave Yard	Crew Leave Yard	7/16/2025	18:00:00	USER					CREW DEPARTS HALLIBURTON FACILITIES FOR LOCATION.

Event	4	Arrive At Loc	Arrive At Loc	7/16/2025	19:00:00	USER						MET WITH CO MAN TO DISCUSS JOB. TD-28481' 8.75" OH, TP-28468' 6" 24# P-110, FC-28462', PC-3339' 9/58 36# J55, TVD-7960', 9.2 PPG OBM. 1 BTM PLUGS 1 TOP. WATER 65* 7.0 PH, 0 CHLORIDES.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/16/2025	19:30:00	USER						PRE-RIG UP SAFTEY MEETING WITH ALL HES EMPLOYEES TO DISCUSS HAZARDS OF LOCATION AND DISCUSS RIG UP SEQUENCE.
Event	6	Rig-up Lines	Rig-up Lines	7/16/2025	19:45:00	USER						RIG UP PUMPS AND LINES.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	7/17/2025	04:00:00	USER	8.48	0.00	23.06	10.98		SAFTEY NMEETING WITH HES, COMPANY MAN, AND RIG HANDS.
Event	8	Start Job	Start Job	7/17/2025	04:53:36	NONE	8.41	0.00	24.21	1.23		START JOB DATA RECORDING.
Event	9	Test Lines	Test Lines	7/17/2025	04:54:35	NONE	8.56	0.00	116.55	1.73		PRESSURE TESTED LINES TO 6000 PSI, 500 EKO TEST AT 600

PSI, 5TH GEAR STALL  
 AT 2300 PSI.

Event	10	Drop Bottom Plug	Drop Bottom Plug	7/17/2025	04:59:42	NONE	8.52	0.00	70.05	1.77	PLUG WAS LOADED DIRECTLY INTO CASING, VERIFIED BY COMPANY MAN.
Event	11	Pump Spacer 1	Pump Spacer 1	7/17/2025	04:59:48	NONE	8.52	0.00	69.65	0.00	PUMPED 120 BBLS OF 11.5 PPG TUNED SPACER. 2.57 CUFT/SK AND 16.2 GAL/SK VERIFIED WEIGHT WITH PRSSURIZED MUD SCALES.
Event	12	Pump Cap Cement	Pump Cap Cement	7/17/2025	05:16:30	NONE	11.92	8.07	380.42	0.07	PUMPED 157.2 BBLS OF 13 PPG ELASTI CEM 555 SKS 1.59 CUFT/SK, 7.71 GAL/SK. VERIFIED BY PRESSURISED MUD SCALES. TOC ESTIMATED AT SURFACE.
Event	13	Pump Lead Cement	Pump Lead Cement	7/17/2025	05:35:16	NONE	12.64	10.04	418.69	0.17	PUMPED 144.8 BBLS OF 13 PPG ISOBOND 535 SKS 1.52 CUFT/SK, 7.11 GAL/SK. VERIFIED

											BY PRESSURISED MUD SCALES. TOC ESTIMATED AT 2412'.
Event	14	Pump Tail Cement	Pump Tail Cement	7/17/2025	05:51:24	NONE	12.91	9.90	615.97	0.17	PUMPED 884.5 BBLS OF 13.2 PPG ELASTICEM 2790 SKS 1.78 CUFT/SK, 8.5 GAL/SK. VERIFIED BY PRESSURISED MUD SCALES. TOC ESTIMATED AT 6019'.
Event	15	Shutdown	Shutdown	7/17/2025	07:32:50	NONE	0.15	0.00	8.58	970.09	SHUTDOWN TO CLEAN PUMPS AND LINES
Event	16	Clean Lines	Clean Lines	7/17/2025	07:33:00	USER	-0.02	0.00	1.69	970.09	CLEAN PUMPS AND LINES.
Event	17	Drop Top Plug	Drop Top Plug	7/17/2025	07:44:10	NONE	6.46	0.00	4.14	991.35	PLUG WAS LOADED DIRECTLY INTO PLUG CONTAINER, VERIFIED BY COMPANY MAN.
Event	18	Pump Displacement	Pump Displacement	7/17/2025	07:44:13	NONE	5.33	0.00	5.36	0.00	BEGIN PUMPING DISPLACEMENT, 745.7 BBLS FRESH WATER, FIRST 20 BBLS OF DISPLACEMENT WITH 10-GAL MMCR, 15 GAL OF BIOCIDES THROUGHOUT THE REST OF DISPLACEMENT.

Event	19	Bump Plug	Bump Plug	7/17/2025	09:16:23	USER	8.31	0.00	2618.48	766.51	PLUG BUMPED AT CALCULATED DISPLACEMENT. FINAL CIRCULATING PRESSURE OF 2400 PSI AT 4BBL/MIN, HELD PRESSURE AT 2900 PSI. 55 BBL OF CEMENT TO SURFACE.
Event	20	Check Floats	Check Floats	7/17/2025	09:19:37	USER	8.25	0.00	2465.61	766.82	CHECK FLOATS, RELEASED PRESSURE BACK TO TRUCK, 7.5 BBL BACK.
Event	21	End Job	End Job	7/17/2025	09:21:28	NONE	8.11	0.00	5.35	0.00	END JOB DATA RECORDING.
Event	22	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	7/17/2025	09:30:00	USER	8.15	5.83	134.00	27.74	PRE-RIG DOWN SAFETY MEETING TO DISCUSS HAZARDS OF LOCATION AND SEQUENCE OF RIG DOWN.
Event	23	Rig Down Lines	Rig Down Lines	7/17/2025	09:35:00	USER	8.11	5.81	128.56	56.81	RIG DOWN PUMPS AND LINES.
Event	24	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	7/17/2025	10:20:00	USER					PRE-CONVOY SAFETY MEETING ON LOCATON TO DISCUSS ROUTE AND DRIVING HAZARDS.

Event 25 Crew Leave Location Crew Leave Location 7/17/2025 10:30:00 USER

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CREW DEPARTS  
LOCATION, THANK  
YOU FOR CHOOSING  
HES. THOMAS HAAS  
AND CREW.

3.0 Attachments

3.1 Job Chart.png

