

HALLIBURTON

iCem® Service

CIVITAS RESOURCES-EBUS

Ft. Lupton District, CO

For: Manny Parras

Date: Saturday, June 15, 2024

Florida 3-65 27-26 1BH

Post Job Report

Sincerely,

William Mix

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Florida 3-65 27-26 1BH Production**. 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 95 %, While pumping Cement 95%, While Pumping Displacement 95%.
- Final Circulating Pressure and Pump Rate: 2,650 psi / 4 bpm.
- Returns to Surface: 120 bbl of spacer and 51 bbl of cement.
- 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 #:	05-001-10559
City, County:	Aurora, Adams
SO#:	909399858

Job Times		
	Date (mm/dd/yyyy)	Time (hh:mm)
Requested Time On Location:	6/14/24	19:00
Called Out Time:	6/14/24	12:00
Arrived On Location:	6/14/24	17:00
Job Started:	6/14/24	22:32
Job Completed:	6/15/24	02:03
Departed Location:	5/15/24	03:30

	Description	Units	Value
1	Surface temperature at the time of the job	degree F	65
2	Mud type (OBM, WBM, Synthetic, Water, Brine)	-	OBM
3	Mud density	ppg	9.2
4	Casing set depth (shoe)	ft	18,476
5	TVD	ft	7,743
6	Float collar depth	ft	18,471
7	Length of rate hole	ft	10
8	Previous casing shoe depth	ft	3,396
9	Pre-job mud circulation time	hh:mm	1:30
10	Pre-job mud circulation rate	bpm	11

11	Pre-job mud circulation volume	bbls	600
12	Mud circulation pressure at start of cement	psi	400
13	Annual flow before the start of job	Y/N	N
14	Pipe movement during cement job	Y/N	N
15	Calculated displacement	bbls	410
16	Job displaced by	Rig/HES	HES
17	Estimated returns % during job	%	95
18	Fluid returns to surface	Spacer/Cement, bbls	120 spacer / 51 cement
19	Final circulation pressure, rate prior to plug bump	psi @ bpm	2,650 @ 4
20	Number of Centralizers	-	
21	Number of bottom plugs	-	1
22	Number of trucks used preparing/during job	-	11
23	Add hours? If Yes, put #	Y/N and hours	N
24	NPT? If Yes, put #	Y/N and hours	N

1.3 Water Field Test

	Recorded Value	Unit	Acceptable Limit	Potential Problems if Values Exceed the Limit
pH	7		6.0 - 8.0	Chemicals in water can cause severe retardation
Temperature	65	F	60 - 80 F	Can pre-mature setting of cement
Chlorides	500	ppm	3000 ppm	Can shorten thickening time

1.4 Actual Pump Schedule

Stage 1

	Density (ppg)	Volume (bbls)	Yield (ft ³ /sk)	Water Requirement (gal/sk)	Bulk Sacks (sks)	Total Water (gals)
Spacer Fluid	11.5	120	2.57	16.2		4,247
Cap Cement	13	205.7	1.65	8.07	700	5,649
Lead Cement	13	174.4	1.58	7.42	620	4,600
Tail Cement	13.2	448.7	1.57	7.54	1605	12,101
Top Plug	1					
Displacement Fluid	8.33	410				17,220

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq. No.	Activity	Graph Label	Date	Time	Comments
1	Call Out	Call Out	6/14/2024	12:00:00	Call out
2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/14/2024	15:00:00	Pre-Convoy Safety Meeting
3	Crew Leave Yard	Crew Leave Yard	6/14/2024	15:10:00	Crew Leave Yard
4	Arrive at Location from Service Center	Arrive at Location from Service Center	6/14/2024	17:00:00	Arrive at Location from Service Center
5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/14/2024	17:15:00	Pre-Rig Up Safety Meeting, Be aware of your surroundings, Use two spotters one in front and one in back of vehicle, Utilize hearing protection, Have good communication and make sure Line of Fire is clear before swinging hammer Identify points were hand/finger can get crushed
6	Rig-Up Equipment	Rig-Up Equipment	6/14/2024	17:20:00	Rig Up equipment as far as possible, Rig running casing
7	Safety Meeting - Pre Job	Safety Meeting - Pre Job	6/14/2024	22:20:00	Safety Meeting-Pre job, Eyes on task Use impact gloves Have good communication to identify pinch points between steel hoses, iron and drill pipe and while making up the hammer unions. Identify points were hand/finger can get crushed
8	Start Job	Start Job	6/14/2024	22:32:17	Start of job. Begin Recording.
9	Drop Bottom Plug	Drop Bottom Plug	6/14/2024	22:32:28	Dropped Bottom plug with Manny and driller.
10	Test Lines	Test Lines	6/14/2024	22:34:31	Filled and pressure tested lines to 6,500 psi.

11	Pump Spacer 1	Pump Spacer 1	6/14/2024	22:40:26	Pumped 120 bbl of 11.5 ppg Tuned Prime Spacer. Pumped at a rate of 5.5 bpm with a pressure of 400 psi.
12	Pump Cap Cement	Pump Cap Cement	6/14/2024	23:04:47	Pumped 700 sacks / 205.37 bbl of 13 ppg Elasticem Lead cement. Pumped at a rate of 8.2 bpm with a pressure of 800 psi. Pre job calculated 51 bbl of cap cement to surface.
13	Pump Lead Cement	Pump Lead Cement	6/14/2024	23:32:14	Pumped 620 sacks / 174.3 bbl of 13 ppg Isobond Lead cement. Pumped at a rate of 8 bpm with a pressure of 850 psi. Pre job calculated TOL cement was at 3,201.46 ft.
14	Pump Tail Cement	Pump Tail Cement	6/14/2024	23:55:40	Pumped 1,605 sacks / 447.64 bbl of 13.2 ppg Elasticem tail cement. Pumped at a rate of 8 bpm with a pressure of 900 psi. Pre job calculated TOT cement was at 7,477.59 ft.
15	Shutdown	Clean Lines	6/15/2024	01:02:47	Shutdown. End of cement.
16	Clean Lines	Clean Lines	6/15/2024	01:03:05	Washed up pumps and lines with 15 bbl of fresh water.
17	Drop Top Plug	Drop Top Plug	6/15/2024	01:08:41	Dropped Top plug with Manny and driller.
18	Pump Displacement	Pump Displacement	6/15/2024	01:08:43	Pumped 410 bbl of freshwater displacement. First 20 bbl had MMCR. Remaining displacement had 10 Gallons of Biocide.
19	Bump Plug	Bump Plug	6/15/2024	01:59:36	Bumped plug. FCP – 2,650 psi. Bump pressure – 3,250 psi. 51 bbl of cement to surface. Held for 5 minutes and checked floats. 5 bbl back from well.
20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/15/2024	02:08:00	Pre-Rig Down Safety Meeting
21	Rig-Down Equipment	Rig-Down Equipment	6/15/2024	02:12:00	Rig-Down Equipment
22	Depart Location Safety Meeting	Depart Location Safety Meeting	6/15/2024	02:45:00	Depart Location Safety Meeting, Verify all equipment has been thoroughly pre-tripped. All safety and quality issues should be resolved before proceeding.
23	Crew Leave Location	Crew Leave Location	6/15/2024	03:30:00	Crew leave location

3.0 Attachments

3.1 Real time job chart

