

HALLIBURTON

iCem[®] Service

CIVITAS RESOURCES-EBUS

Prosper Farms 4-65 14-13 4BH Production

Job Date: Saturday, October 22, 2022

Sincerely,

Meghan Van Zyl

Legal Notice

Disclaimer:

All information in this report is provided subject to the terms and conditions which govern the services provided by Halliburton. Halliburton personnel use their best efforts in gathering information and their best judgment in interpreting it, but any interpretation, research, analysis or recommendation furnished by Halliburton are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and empirical relationships and assumptions are not infallible, and with respect to which professionals in the industry may differ. iCem 3D Displacement results are used to understand how fluids intermix during a cement job. Simulation and 3D displacement results are not intended as and should not be used as a replacement for bond logs in determining top of cement. Current 3D model calculations are known to model more volume than the input volume for standard cases due to known calculation improvements required. For rotational cases, the modeled volume will be impacted by the same calculations impacting the standard cases, as well as additional constraints imposed to make the calculation time required operationally feasible. Therefore, until further notice, 3D displacement results should not be used for replacement of a bond log, or used as an identifier of top of cement. HALLIBURTON IS UNABLE TO GUARANTEE THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, OR JOB RECOMMENDATION and any interpretation or recommendation is not for use of or reliance upon by any third party. The customer has full responsibility for any of its decisions which are based on the information provided in this report.

Table of Contents

Cementing Job Summary4
 Executive Summary..... 4
Real-Time Job Summary.....7
 Job Event Log 7
Attachments..... 10
 Real Time iCem Job Chart..... 10

1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Prosper Farms 4-65 14-13 4BH** cement **Production** 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.

Approximately 50 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

Sold To #: 324725		Ship To #: 9141839		Quote #:		Sales Order #: 0908175833	
Customer: CRESTONE PEAK RESOURCES-EBUS				Customer Rep: Danny Hererra			
Well Name: PROSPER FARMS			Well #: 4-65 14-13		API/UWI #: 005-07507		
Field:		City (SAP): WATKINS		County/Parish: Arapahoe		State: COLORADO	
Legal Description:							
Contractor: PATTERSON-UTI ENERGY				Rig/Platform Name/Num: PATTERSON 572			
Job BOM: 7523 7523							
Well Type: OIL & GAS WELL							
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: Nicholas Roles			
Job							

Formation Name							
Formation Depth (MD)		Top		Bottom			
Form Type		BHST					
Job depth MD		16610ft		Job Depth TVD			
Water Depth		Wk Ht Above Floor					
Perforation Depth (MD)		From		To			

Well Data										
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	3728	0	3728
Casing	0	5.5	4.778	20			0	16610	0	7817
Open Hole Section			8.5				3728	16621	3728	7817

Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5	1		
Float Shoe	5.5			16610		Bottom Plug	5.5	1		
Float Collar	5.5			16605		SSR plug set	5.5			HES
Insert Float	5.5					Plug Container	5.5	1		HES
Stage Tool	5.5					Centralizers	5.5			HES

Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Prime	TUNED PRIME CEMENT SPACER SYS	50	bbl	11.5	3.74	23.64	6	1775	

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
2	Cap	SBM CEM ELASTICEM™ SYS	575	sack	13	1.66	8.23	9	4732
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	IsoBond Lead Cement	SBM CEM FDP-C1371 SYS	885	sack	13	1.55	7.14	9	6319
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	ElastiCem	SBM CEM ELASTICEM™ SYS	1215	sack	13.2	1.59	7.78	9	9453
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
5	Displacement	Displacement	368	bbl	10			10	15456
Comment 898bbls mix water total used.									

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq No.	Activity	Date	Time	Dwnhole Density (ppg)	Cmb Pump Rate (bbl/min)	Pump A Pressure (psi)	Cmb Stg Total (bbl)	Comments
1	Call Out	10/22/2022	00:00:00					Called out by service coordinator for OL time of 0600.
2	Pre-Convoy Safety Meeting	10/22/2022	03:45:00					Discuss all hazards associated with journey, directions to destination, complete journey management if needed, and ensure all convoy is fit for duty.
3	Depart from Service Center or Other Site	10/22/2022	04:00:00					Depart from service center or other job site.
4	Arrive at Location from Service Center	10/22/2022	05:15:00					Upon arrival to location, signed in with onsite safety personnel. Met with company man and discussed job specific requirements and specifications.
5	Other	10/22/2022	05:20:00					Mix water test results- PH-7, Chlo-0, Temp-65F.
6	Pre-Rig Up Safety Meeting	10/22/2022	05:30:00					Held pre rig up JSA for hazards, hazard hunt with crew, and discussed plan for spotting equipment and rigging up lines for job. Discussed muster points and closest emergency location as well as coordinates.
7	Rig-Up Equipment	10/22/2022	05:45:00					Begin rig up with crew.
8	Rig-Up Completed	10/22/2022	06:30:00					Complete rig up for job to nearest point before red zone.
9	Start Job	10/22/2022	09:17:13	8.10	0.00	6.07	10.72	TD-16621', OH-8.5", TP-16610' 5.5" 20#,FC-16605', TVD-7817', SURF-3,728' 9.625" 36#, MUD 9.5#
10	Drop Bottom Plug	10/22/2022	09:18:24	8.15	0.00	-15.57	0.00	Dropped by HES supervisor, witnessed by company man.

11	Test Lines	10/22/2022	09:20:40	8.33	0.00	321.22	5.05	Pumped 5bbls fresh water to fill lines at 4bpm 320psi, shut manifold, and performed 500psi k/o function test, followed with 5th gear stall at 1800psi, proceeded to bring pressure to 5000psi, pressure stabilized and held with no leaks.
12	Pump Spacer 1	10/22/2022	09:26:35	8.33	0.00	108.96	0.00	Pumped 50bbls of 11.5# 3.83y 24.16g/s FDP Spacer with 10g D-air at 4bpm 447psi.
13	Check Weight	10/22/2022	09:33:34	12.11	3.11	458.35	21.18	Weight verified with pressurized mud scales.
14	Check Weight	10/22/2022	09:34:55	11.39	5.98	618.74	28.87	Weight verified with pressurized mud scales.
15	Pump Cap Cement	10/22/2022	09:36:34	11.16	5.98	577.97	0.10	Pumped 575sks or 170bbls of 13# 1.66y 8.23g/s Elasticem at 9bpm 498psi. Calc mix gal=4732g
16	Check Weight	10/22/2022	09:40:21	13.11	2.73	340.94	16.64	Weight verified with pressurized mud scales.
17	Safety Meeting - Pre Job	10/22/2022	09:45:00	13.11	6.99	896.37	49.06	Held job specific hazards as well as confirming job procedure with co man and rest of crew associated with job.
18	Pump Lead Cement	10/22/2022	09:59:24	12.78	9.09	951.98	0.08	Pumped 885sks 244bbls 13# 1.55y 7.14g/s Gasstop at 9bpm 1000psi. Calc mix gal=5783g
19	Check Weight	10/22/2022	10:01:23	12.97	9.02	1317.72	18.12	Weight verified with pressurized mud scales.
20	Pump Tail Cement	10/22/2022	10:31:36	12.80	8.94	1116.64	258.83	Pumped 1215sks or 426bbls 13.2# 1.59y 7.78g/s Elasticem at 9bpm 990psi. Calculated mix gal=11709g.
21	Check Weight	10/22/2022	10:34:55	13.08	6.00	543.44	19.38	Weight verified with pressurized mud scales.
22	Check Weight	10/22/2022	11:08:43	13.42	7.35	809.52	320.20	Weight verified with pressurized mud scales.
23	Shutdown	10/22/2022	11:16:00	13.76	0.00	213.14	368.94	Shutdown, washed up through pumps and lines with fresh water. Pumped total of 20bbls until clean.
24	Drop Top Plug	10/22/2022	11:24:08	7.60	0.00	-5.06	16.89	Dropped by HES supervisor, witnessed by company man.

25	Pump Displacement	10/22/2022	11:24:10	7.60	0.00	-4.99	0.00	Pumped 368bbbls fresh water at 10bpm.
26	Bump Plug	10/22/2022	12:04:41	8.52	0.00	3006.86	361.97	Slowed down at 350bbbls away to 4bpm, final circulating pressure-2500psi. Bump pressure-3000psi.
27	Other	10/22/2022	12:07:26	8.54	0.00	3152.96	361.97	Released pressure and got 4bbbls back. Floats held.
28	End Job	10/22/2022	12:09:18	8.35	0.00	2.52	361.97	Got 50bbbls Cement to surface. Est TOT-8178', TOL-2424'. Total fresh water used-950bbbls
29	Pre-Rig Down Safety Meeting	10/22/2022	12:30:00					Held safety meeting with crew prior to rig down, discussed possibility of trapped pressure, swing radius, slips trips and falls, pinch points and risks associated with rig down.
30	Rig Down Lines	10/22/2022	12:45:00					Begin rig down
31	Pre-Convoy Safety Meeting	10/22/2022	14:45:00					Held safety meeting with convoy, discussed trip hazards, directions and all crew fit for duty prior to departure.
32	Rig-Down Completed	10/22/2022	14:45:00					Rig down complete with no injuries, spills or damage to equipment.
33	Depart Location for Service Center or Other Site	10/22/2022	15:00:00					Depart location, if applicable journey will be submitted.

3.0 Attachments

3.1 Real Time iCem Job Chart

