

HALLIBURTON

iCem[®] Service

CRESTONE PEAK RESOURCES-EBUS

Ft. Lupton District, CO

Prosper Farms 4-65 14-13 4AH Production

Job Date: Thursday, October 13, 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 Summary 4

 Executive Summary 4

Real-Time Job Summary 7

 Job Event Log..... 7

Attachments..... 9

 Real Time iCem Job Chart 9

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 4AH** 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 51 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 #: 324725		Quote #:		Sales Order #: 0908163516				
Customer: CRESTONE PEAK RESOURCES-EBUS					Customer Rep: Danny Herrera					
Well Name: Prosper Farms 4-65 14-13			Well #: 4AH			API/UWI #: 05-005-07506				
Field:		City (SAP): Aurora		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: Michael Loughran					
Job										
Formation Name										
Formation Depth (MD)		Top				Bottom				
Form Type				BHST						
Job depth MD		18550ft		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	3589	0	3589
Casing	0	5.5	4.778	20			0	18550	0	7856
Open Hole Section			8.5				3589	18550	3589	7856
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5	1	CIT	
Float Shoe	5.5			18550		Bottom Plug	5.5	1	CIT	
Float Collar	5.5			18545		SSR plug set	5.5			
Insert Float	5.5					Plug Container	5.5	1	HES	
Stage Tool	5.5					Centralizers	5.5			
Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name		Qty	Qty UoM	Mixing Density lbm/gal	Yield ft³/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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Cap	SBM CEM ELASTICEM™ SYS	575	sack	13	1.66	8.23	8	4732
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	IsoBond Lead Cement	SBM CEM FDP-C1371 SYS	875	sack	13	1.55	7.14	8	6248
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	ElastiCem	SBM CEM ELASTICEM™ SYS	1490	sack	13.2	1.59	7.78	8	11592
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
5	Displacement	Displacement	411	bbl	10			8	17262
Comment 991bbbls mix water total used.									

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq No.	Activity	Date	Time	Pump B Pressure (psi)	Cmb Pump Rate (bbl/min)	Dwnhole Density (ppg)	Cmb Stg Total (bbl)	Comments
1	Call Out	10/12/2022	12:00:00					CALLOUT 1200 HRS. 10/12/2022, REQUESTED ON LOCATION 2100 HRS 10/12/2022
2	Pre-Convoy Safety Meeting	10/12/2022	17:00:00					DISCUSS ROUTE AND JSA SAFE DRIVING
3	Crew Leave Yard	10/12/2022	17:30:00					CREW LEAVES YARD
4	Arrive At Loc	10/12/2022	19:30:00					MEET WITH CUSTOMER, TD 18550', 5.5" 20# P-110 CASING 18550', F/C 18545, 8.5" HOLE, SURFACE CASING 36# J-55 3589', TVD 7856', OBM 9.2 PPG, WATER TEST 55 DEGREES, PH 7, CHLORIDES LESS 200 PPM, MAX PRESSURE 3500 PSI
5	Pre-Rig Up Safety Meeting	10/12/2022	19:50:00					JSA SAFE RIG UP
6	Rig-Up Equipment	10/12/2022	20:00:00					RIG-UP ALL HES EQUIPMENT AND IRON TO BUFFER ZONE
7	Start Job	10/13/2022	00:18:00					BEGIN RECORDING DATA. RIG CIRCULATES BOTTOMS UP 12 BPM/1360 PSI
8	Drop Bottom Plug	10/13/2022	00:19:00					CITADEL BOTTOM PLUG VERIFIED BY DANNY
9	Pump Spacer	10/13/2022	00:27:00					50 BBLS TUNED PRIME SPACER. 11.5 PPG, 3.74 YIELD, 23.64 GAL/SACK.
10	Pump Cap Cement	10/13/2022	00:43:09					575 SACKS ELASTICEM CAP CEMENT. 170 BBLS. 13 PPG, 1.66 YIELD, 8.23 GAL/SACK. TOCC=0' APPROX 51 BBLS CEMENT TO SURFACE

11	Pump Lead Cement	10/13/2022	01:16:33	609.59	5.99	13.03	0.10	875 SACKS ISO BOND LEAD CEMENT. 241.55 BBLS. 13 PPG, 1.55 YIELD 7.14 GAL/SACK ESTIMATED TOLC=2483'
12	Pump Tail Cement	10/13/2022	01:49:50	1173.95	8.23	12.77	0.14	1490 SACKS ELASTICEM TAIL CEMENT. 421.94 BBLS. 13.2 PPG, 1.59 YIELD, 7.78 GAL/SACK. ESTIMATED TOTC=8211'
13	Shutdown	10/13/2022	02:47:16	109.91	0.00	13.41	455.41	SHUTDOWN
14	Clean Lines	10/13/2022	02:51:01	8.58	0.00	14.16	0.00	CLEAN PUMPS AND LINES 17 BBLS
15	Shutdown	10/13/2022	02:56:58	22.86	0.00	8.12	17.27	SHUTDOWN
16	Drop Top Plug	10/13/2022	02:58:11	7.62	0.00	8.17	17.27	CITADEL TOP PLUG VERIFIED BY DANNY
17	Pump Displacement	10/13/2022	02:58:14	7.60	0.00	8.17	0.00	411.15 BBLS FRESH WATER DISPLACEMENT. 1ST 20 BBLS HAS 10 GALLONS MICRO MATRIX CEMENT RETARDER.
18	Bump Plug	10/13/2022	03:46:18	2491.15	4.06	8.62	402.75	FCP 2490 PSI. BUMP 2900 PSI
19	Check Floats	10/13/2022	03:49:07	2969.34	0.00	8.65	406.39	FLOATS HOLD 4.5 BBLS. BACK
20	End Job	10/13/2022	03:50:48	10.66	0.00	8.46	0.00	STOP RECORDING DATA. FLUSH RIG STACK WITH APPROX 70 BBLS WATER AND 100 LBS SUGAR. TOTAL WATER USED APPROX 1080 BBLS
21	Pre-Rig Down Safety Meeting	10/13/2022	05:00:00					JSA SAFE RIG-DOWN
22	Rig-Down Equipment	10/13/2022	05:05:00					RIG-DOWN ALL HES EQUIPMENT
23	Rig-Down Completed	10/13/2022	07:00:00					RIG DOWN COMPLETED
24	Crew Leave Location	10/13/2022	08:15:00					CREW DEPARTS LOCATION

3.0 Attachments

3.1 Real Time C-Rios Job Chart

