

HALLIBURTON

iCem[®] Service

VERDAD RESOURCES LLC-EBUS

TIMBRO FED 1931 07H

Production Casing

Job Date: Monday, April 25, 2022

Sincerely,

Nick Roles and Crew

Legal Notice

Disclaimer:

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the Timbro Fed 1931 07H 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.

Approximately 48 bbl. 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

The Road to Excellence Starts with Safety

Sold To #: 380688		Ship To #: 9048959		Quote #:		Sales Order #: 0907825232				
Customer: VERDAD RESOURCES LLC-EBUS					Customer Rep: Tobin Williams					
Well Name: TIMBRO FED 1931			Well #: 07H			API/UWI #: 05-123-51204-00				
Field: WILDCAT		City (SAP): RAYMER		County/Parish: WELD			State: COLORADO			
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 464						
Job BOM: 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX41066					Srvc Supervisor: Nicholas Roles					
Job										
Job depth MD		16631ft			Job Depth TVD		5827ft			
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	1599	0	1599
Casing		5.5	4.778	20			0	16631	0	5827
Open Hole Section			8.5				1599	16668	1599	5827
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Float Shoe	5.5	1		16631		Top Plug	5.5	1		
Float Collar	5.5	1		16582		Bottom Plug	5.5	1		
						Plug Container	5.5	1	HES	

Fluid Data										
Stage #: 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	Spacer	Tuned Prime Cement Spacer	100	bbl	11.5	3.83	0	6	3539	
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	Lead Cement	ElastiCem™	1045	sack	13.2	1.57	7.52	9	7858	
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	Tail Cement	NeoCem™	1420	sack	13.2	1.76	8.38	9	11900	
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	Displacement	Fresh Water with MMCR	40	bbl	8.33	0	0	10	1660	
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	Treated Fresh Water	328	bbl	8.33	0	0	10	13776	
Cement Left In Pipe										
Amount		49 ft			Reason			Shoe Joint		
Mix Water:		pH 7		Mix Water Chloride:		0 ppm		Mix Water Temperature:		65 °F
Plug Bumped?		Yes		Plug Displaced by:		8.33 lb/gal		Disp. Temperature:		65 °F
Cement Returns:		48 bbl.		Bump Pressure:		2393 psi		Floats Held?		Yes
Comment: Got 48bbls cement to surface. Estimated TOT-5724'.										

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq. No.	Activity	Date	Time	Comments
1	Call Out	4/24/2022	11:00:00	Called out by service coordinator for OL time of 1800.
2	Pre-Convoy Safety Meeting	4/24/2022	14:45:00	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	4/24/2022	15:00:00	Depart from service center or other job site.
4	Arrive at Location from Service Center	4/24/2022	17:00:00	Upon arrival to location, signed in with onsite safety personnel. Met with company man and discussed job specific requirements and specifications.
5	Pre-Rig Up Safety Meeting	4/24/2022	17:05:00	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.
6	Rig-Up Equipment	4/24/2022	17:15:00	Begin rig up with crew.
7	Rig-Up Completed	4/24/2022	18:15:00	Complete rig up for job to nearest point before red zone.
8	Other	4/24/2022	18:30:00	Mix water test results- PH-7, Chlo-0, Temp-65F.
9	Safety Meeting - Pre Job	4/25/2022	01:30:00	Held job specific hazards as well as confirming job procedure with co man and rest of crew associated with job.
10	Start Job	4/25/2022	01:46:42	TD-16668', TP-16631' 5.5" 20#, FC-16582', TVD-5827', OH-8.5", SURF-1599' 9.625" 36#, MUD-9.8#
11	Test Lines	4/25/2022	01:54:34	Pumped 3bbls fresh water to fill lines, closed manifold and performed 500psi k/o function test, proceeded to perform 5th gear stall at 1452psi, continued to bring pressure up to 4500psi. Pressure stabilized and held with no leaks

12	Pump Spacer 1	4/25/2022	01:58:50	Pumped 100bbls 11.5# 3.83y 24.17g/s Tuned Prime 10g D-Air at 6bpm 225psi.
13	Check Weight	4/25/2022	02:02:46	Weight verified with pressurized mud scales.
14	Drop Bottom Plug	4/25/2022	02:17:31	Dropped by HES supervisor, witnessed by company man.
15	Pump Lead Cement	4/25/2022	02:17:37	Pumped 1045sks or 292bbls 13.2# 1.57y 7.52g/s ElastiCem w/ CBL at 9bpm 520psi.
16	Check Weight	4/25/2022	02:27:09	Weight verified with pressurized mud scales.
17	Check Weight	4/25/2022	02:30:28	Weight verified with pressurized mud scales.
18	Check Weight	4/25/2022	02:32:30	Weight verified with pressurized mud scales.
19	Pump Tail Cement	4/25/2022	02:53:36	Pumped 1420sks or 445bbls 13.2# 1.76y 8.38g/s NeoCem at 9bpm 575psi.
20	Check Weight	4/25/2022	02:59:12	Weight verified with pressurized mud scales.
21	Check Weight	4/25/2022	03:17:38	Weight verified with pressurized mud scales.
22	Shutdown	4/25/2022	03:44:46	Pumped 5bbls fresh water to clean through pumps and lines.
23	Drop Top Plug	4/25/2022	03:53:43	Dropped by HES supervisor, witnessed by company man.
24	Pump Displacement	4/25/2022	03:53:45	Pumped 368bbls fresh water with 20g MMCR in first 40bbls and 3lbs BE-3 and 10gal MCMX throughout.
25	Bump Plug	4/25/2022	04:40:27	Slowed down to 4bpm at 350bbls away, final circulating pressure-2393psi, bump pressure-3190psi.
26	Other	4/25/2022	04:44:57	Held pressure for 5min., continued to release pressure and got 4bbls back to pump. Floats held.
27	End Job	4/25/2022	04:46:26	Got 48bbls cement to surface. Estimated TOT-5724'.
28	Pre-Rig Down Safety Meeting	4/25/2022	04:50:00	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.
29	Rig Down Lines	4/25/2022	05:00:00	Begin rig down
30	Rig-Down Completed	4/25/2022	05:40:00	Rig down complete with no injuries, spills or damage to equipment.

31	Pre-Convoy Safety Meeting	4/25/2022	05:45:00	Held safety meeting with convoy, discussed trip hazards, directions and all crew fit for duty prior to departure.
32	Depart Location for Service Center	4/25/2022	06:00:00	Depart location, if applicable journey will be submitted.

3.0 Attachments

3.1 Job Chart

