

HALLIBURTON

iCem[®] Service

VERDAD RESOURCES LLC

SONIC STAR 1101-13H

Production Casing

Job Date: Saturday, August 28, 2021

Sincerely,

JIMMY SINGH

Legal Notice

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the Sonic Star 1101-13H 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 0 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 Casper

Job Times

	Date	Time	Time Zone
Requested Time On Location:	8-27-21	1600	MST
Called Out Time:	8-27-21	1400	MST
Arrived On Location At:	8-27-21	2030	MST
Job Started At:	8-27-21	2216	MST
Job Completed At:	8-28-21	0227	MST
Departed Location At:	8-28-21	0400	MST

The Road to Excellence Starts with Safety

Sold To #: 380688		Ship To #: 0003928230		Quote #: 0022873517		Sales Order #: 097347868				
Customer: VERDAD RESOURCES LLC-EBUS				Customer Rep:						
Well Name: SONIC STAR			Well #: 1101-13H			API/UWI #: 05-123-48990-00				
Field:		City (SAP): KEOTA		County/Parish: WELD		State: COLORADO				
Legal Description: SE SE-11-8N-60W-273FSL-230FEL										
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 464						
Job BOM: 7523 7523										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Jimmy Singh						
Job										
Job depth MD		16091 ft		Job Depth TVD		6188 ft				
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	1903	0	1903
Casing		5.5	4.892	20			0	16075	0	6188
Open Hole Section			8.5				1903	16091	1903	6188
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Float Shoe	5.5	1	HES	16075		Top Plug	5.5	1	HES	
Float Collar	5.5	1	HES	15983		Bottom Plug	5.5	1	HES	
						Plug Container	5.5	1	HES	
						Centralizers	5.5			

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 SPACER	100	bbl	11.5	3.71		6	
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™ SYSTEM	1296	sack	13.2	1.6		8	7.66
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™	950	sack	13.2	2.02		8	9.71
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	MMCR Displacement	40	bbl	8.34			10	
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	Biocide Water	313	bbl	8.34			8	
Cement Left In Pipe		Amount	92 ft		Reason			Shoe Joint	
Mix Water:		pH 6	Mix Water Chloride:		LESS 200 ppm		Mix Water Temperature:		63°F
Cement Temperature:			Plug Displaced by:		8.33 lb/gal		Disp. Temperature:		
Plug Bumped?		Yes	Bump Pressure:		2300 psi		Floats Held?		Yes
Cement Returns:			Returns Density:				Returns Temperature:		
Comment 30 BBLS SPACER TO SURFACE									

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq. No.	Activity	Date	Time	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
1	Call Out	8/27/2021	02:00:00					HES CALLED OUT FOR PRODUCTION O/L 1800
2	Pre-Convoy Safety Meeting	8/27/2021	02:10:00					HES TALKS OF HAZARDS OF TRAVELING TO LOCATION
3	Crew Leave Yard	8/27/2021	02:30:00					ALL HES EQUIPMENT AND MATERIALS ACCOUNTED FOR
4	Arrive At Loc	8/27/2021	20:30:00					HES ARRIVED ON LOCATION 2030, CASING WAS ON BOTTOM AT 2000
5	Assessment Of Location Safety Meeting	8/27/2021	20:35:00					HES TALKS OF HAZARDS OF SPOTTING IN EQUIPMENT
6	Pre-Rig Up Safety Meeting	8/27/2021	20:40:00					JSA FILLED OUT AND REVEIWED- ALL HES IN ATTENDANCE
7	Rig-Up Equipment	8/27/2021	20:45:00					RIG UP BULK, WATER AND IRON
8	Rig-Up Completed	8/27/2021	21:50:00	8.32	0.00	0.00	0.00	COMPLETED SAFELY. WAITED ON RIG TO DO COUPLE BOTTOMS UP
9	Other	8/27/2021	21:52:00	8.32	0.00	-1.00	0.00	TD: 16091, TP: 16075, TVD: 6188, OH: 8.5, SJ: 92 CSG: 5.5 20# P110, PREV. CSG: 9 5/8 40# 1903, MUD: 9.6 OBM, CIRCULATION 9 BPM 800 PSI
10	Pre-Job Safety Meeting	8/27/2021	21:55:00	8.32	0.00	0.00	0.00	JSA FILLED OUT AND REVEIWED- ALL HES, RIG HANDS AND COMPANY REPS IN ATTENDANCE
11	Start Job	8/27/2021	22:16:25	8.78	0.00	-3.00	0.00	START JOB

12	Pressure Test	8/27/2021	22:21:13	8.35	0.00	11.00	2.40	TEST LINES TO 500-7000 PSI FOR FEW MINS
13	Check Weight	8/27/2021	22:32:27	8.33	0.00	10.00	0.00	CHECK WEIGHT ON MUD SCALES IT WAS READING 11.5#
14	Pump Spacer	8/27/2021	22:33:42	8.33	0.00	10.00	0.00	PUMP 100 BBLS SPACER @ 11.5# YIELD 3.71, GAL/SK 23.58
15	Drop Bottom Plug	8/27/2021	23:03:43	11.42	0.00	4.00	0.00	DROP HALLIBURTON BOTTOM PLUG
16	Pump Lead Cement	8/27/2021	23:06:18	11.23	0.00	4.00	0.00	PUMP LEAD 369.3 BBLS @ 13.2# 1296 SKS, YIELD 1.6, GAL/SK 7.66
17	Pump Tail Cement	8/28/2021	00:05:44	13.27	6.40	230.00	3.50	PUMP TAIL 341.8 BBLS @ 13.2# 950 SKS, YIELD 2.02, GAL/SK 9.71
18	Check Weight	8/28/2021	00:46:20	13.29	6.50	297.00	267.00	CHECKED WEIGHT ON TAIL IT WAS 13.2#
19	Shutdown	8/28/2021	01:03:14	13.31	0.00	90.00	375.90	SHUTDOWN
20	Clean Lines	8/28/2021	01:06:18	12.93	0.00	11.00	0.00	CLEAN PUMPS AND LINES
21	Drop Top Plug	8/28/2021	01:16:32	7.58	0.00	4.00	0.00	DROP HALLIBURTON TOP PLUG,
22	Pump Displacement	8/28/2021	01:16:59	8.00	0.00	4.00	0.00	PUMP 40 BBLS MMCR AND 313 BBLS WATER WITH SIDE CHEM @ 8.3#. TOTAL DISPLACEMENT 353 BBLS.
23	Bump Plug	8/28/2021	02:11:26	8.09	2.20	2370.00	418.70	BUMPED PLUG RIGHT AT CALCULATED DISPLACEMENT, PSI WAS 2300 TOOK 500 PSI OVER WATED COUPLE MINS THEM TOOK IT UP TO ANOTHER 500 PSI
24	Check Floats	8/28/2021	02:26:07	8.16	0.00	3378.00	419.70	bled pressure off of the well- floats held- received 4 BBL BACK
25	End Job	8/28/2021	02:27:19	8.20	0.00	56.00	0.00	END JOB, 30 BBLS SPACER TO SURFACE
26	Pre-Rig Down Safety Meeting	8/28/2021	02:32:00	8.20	0.00	3.00	0.00	JSA FILLED OUT AND REVEIWED- ALL HES IN ATTENDANCE
27	Rig-Down Equipment	8/28/2021	02:40:00	8.16	0.00	2.00	0.00	RIG DOWN COMPLETED SAFELY

28	Safety Meeting - Departing Location	8/28/2021	03:50:00	JSA FILLED OUT AND REVEIWED- ALL HES IN ATTENDANCE
29	Depart Location	8/28/2021	04:00:00	ALL HES AND EQUIPMENT ACCOUNTED FOR

3.0 Attachments

3.1 Job Chart

