

HALLIBURTON

iCem[®] Service

CONFLUENCE DJ LLC-EBUS

Ft. Lupton District, COLORADO

Date: Sunday, March 01, 2020

SILVERTON 5-3-1L Surface

Job Date: Sunday, March 01, 2020

Sincerely,

JOSHUA WASHBURN

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 **SILVERTON 5-3-1L** cement **surface** 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 29 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

The Road to Excellence Starts with Safety

Sold To #: 375989		Ship To #: 3917512		Quote #: 0022678007		Sales Order #: 0906327140					
Customer: CONFLUENCE DJ LLC-EBUS				Customer Rep: Bryan Olmstad							
Well Name: SILVERTON			Well #: 5-3-1L		API/UWI #: 05-123-48444-00						
Field: WATTENBERG		City (SAP): KERSEY		County/Parish: WELD		State: COLORADO					
Legal Description: SW NW-4-4N-63W-2609FNL-255FWL											
Contractor: ENSIGN DRLG				Rig/Platform Name/Num: ENSIGN 122							
Job BOM: 7521 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA/H171328				Srv Supervisor: Kyle Bath							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		1582ft		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	1582	0	0	
Open Hole Section			13.5				0	1592		0	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	9.625			1582		Top Plug	9.625		HES		
Float Shoe	9.625					Bottom Plug	9.625		HES		
Float Collar	9.625					SSR plug set	9.625		HES		
Insert Float	9.625					Plug Container	9.625		HES		
Stage Tool	9.625					Centralizers	9.625		HES		
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	Mud Flush III (Powder)	Mud Flush III			40	bbl	8.4			8	
42 gal/bbl		FRESH WATER									

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	12.5# SwiftCem	SWIFTCM (TM) SYSTEM	275	sack	12.5	2.16	12.28	8	
12.28 Gal		FRESH WATER							
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	13.5# SwiftCem	SWIFTCM (TM) SYSTEM	195	sack	13.5	1.74	9.16	8	
9.16 Gal		FRESH WATER							
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 fluid		119	bbl	8.3			8	
Cement Left In Pipe		Amount	45 ft		Reason			Shoe Joint	
Mix Water:		pH ##	Mix Water Chloride:## ppm			Mix Water Temperature:## °F °C			
Cement Temperature:## °F °C		Plug Displaced by:## lb/gal kg/m3 XXXX				Disp. Temperature:## °F °C			
Plug Bumped?		Yes/No	Bump Pressure:#### psi MPa			Floats Held?Yes/No			
Cement Returns:## bbl m3		Returns Density:## lb/gal kg/m3			Returns Temperature:## °F °C				
Comment									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	DH Density (ppg)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	2/29/2020	22:00:00	USER					CREW CALLED OUT, TRUCKS
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	2/29/2020	22:45:00	USER					DISCUSS ROUTE AND HAZARDS
Event	3	Crew Leave Yard	Crew Leave Yard	2/29/2020	23:00:00	USER					CREW DEPART YARD
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	3/1/2020	05:30:00	USER					ARRIVE ON LOCATION, RIG ON BOTTOM AND CIRCULATING UPON HES ARRIVAL, SPOKE WITH THE COMPANY MAN AND OT NUMBERS. TD-1592 TP-1582 FC-1537 CSG-9 5/8 36# HOLE-13.5 PREV 80'
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	3/1/2020	05:35:00	USER					DISCUSS LOCATION HAZARDS AND HOW TO MITIGATE THEM, TESTED WATER PH-7 CHLORIDES-0 TEMP-55 DEGREES.
Event	6	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	3/1/2020	05:45:00	USER					DISCUSS HAZARDS AND WAYS TO MITIGATE THEM
Event	7	Safety Meeting - Pre Job	Safety Meeting - Pre Job	3/1/2020	06:00:00	USER	0.00	8.00	0.00	0.00	PRE JOB SAFETY MEETING WITH RIG CREW AND CO REP
Event	8	Start Job	Start Job	3/1/2020	06:24:43	COM4	0.00	6.00	7.64	0.00	STARTED RECORDING DATA.
Event	9	Test Lines	Test Lines	3/1/2020	06:26:27	COM4	0.00	16.00	8.43	2.20	TEST LINES TO 3000 PSI.
Event	10	Pump Spacer 1	Pump Spacer 1	3/1/2020	06:30:38	COM4	0.00	19.00	8.42	2.30	MIX AND PUMPED 160 #'S OF MUD FLUSH AND 1 BOTTLE OF RED DYE INTO

											40 BBLS OF FRESH WATER. PUMPED AT 6 BPM AT 194 PSI.
Event	11	Pump Lead Cement	Pump Lead Cement	3/1/2020	06:38:40	COM4	6.10	181.00	8.34	39.70	MIX AND PUMPED 275 SACKS 105.79 BBLS OF LEAD CEMENT , 12.5 PPG, 2.16 YIELD 12.26 GAL/SK. PUMPED AT 8 BPM 250 PSI
Event	12	Pump Tail Cement	Pump Tail Cement	3/1/2020	06:54:12	COM4	8.20	265.00	12.55	124.90	MIX AND PUMPED 195 SACKS 60.4 BBLS OF TAIL CEMENT , 13.5 PPG 1.74 YIELD 9.16 GAL/S, PUMPED AT 8 BPM 300 PSI, TOTC 887.7 FT.
Event	13	Drop Top Plug	Drop Top Plug	3/1/2020	07:07:40	COM4	0.00	20.00	-0.11	86.80	LAUNCHED TOP PLUG.
Event	14	Pump Displacement	Pump Displacement	3/1/2020	07:07:43	COM4	0.00	20.00	-0.11	86.80	PUMPED 119 BBLS OF FRESH WATER DISPLACEMENT, PUMPED AT 9 BPM AND 650 PSI, GOT 29 BBLS OF CEMENT BACK TO SURFACE.
Event	15	Bump Plug	Bump Plug	3/1/2020	07:26:24	COM4	2.90	965.00	8.36	123.30	BUMPED PLUG AT CALCULATED DISPLACEMENT, LAST CIRCULATION PSI WAS 470, K/O AT 1100, AND LEVELED OUT AT 1372.
Event	16	Other	Other	3/1/2020	07:28:06	COM4	0.00	1127.00	8.37	0.00	CHECKED FLOATS BACK TO THE PUMP , 1 BBL RETURNED.
Event	17	End Job	End Job	3/1/2020	07:28:49	COM4	0.00	21.00	8.35	0.00	STOPPED RECORDING DATA.
Event	18	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig-Down	3/1/2020	07:30:00	USER	0.00	15.00	8.35	0.00	DISCUSS HAZARDS AND WAYS TO MITIGATE THEM
Event	19	Depart Location Safety Meeting	Depart Location Safety Meeting	3/1/2020	08:30:00	USER					DISCUSS HAZARDS AND ROUTE

Event	20	Crew Leave Location	Crew Leave Location	3/1/2020	08:45:00	USER
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THANK YOU FOR USING
HALLIBURTON, KYLE BATH
AND CREW

3.0 Attachments

3.1 CONFLUENCE SILVERTON 5-3-1L-Custom Results.png

