

# HALLIBURTON

iCem® Service

## **CONFLUENCE DJ LLC-EBUS**

Ft. Lupton District, CO

### **Bigfoot 11-1-4 Surface**

Job Date: Friday, September 02, 2022

Sincerely,

**Meghan Van Zyl**

## Legal Notice

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### Disclaimer:

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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **Bigfoot 11-1-4** 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 45 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**

<b>Sold To #:</b> 375989		<b>Ship To #:</b> 3822331		<b>Quote #:</b>		<b>Sales Order #:</b> 0908086149				
<b>Customer:</b> CONFLUENCE DJ LLC-EBUS						<b>Customer Rep:</b> Zack Melendez				
<b>Well Name:</b> BIGFOOT				<b>Well #:</b> 11-1-4		<b>API/UWI #:</b> 05-123-45325-00				
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> KERSEY		<b>County/Parish:</b> WELD			<b>State:</b> COLORADO			
<b>Legal Description:</b> SE NE-10-4N-63W-2420FNL-516FEL										
<b>Contractor:</b> ENSIGN DRLG				<b>Rig/Platform Name/Num:</b> ENSIGN 122						
<b>Job BOM:</b> 7521 7521										
<b>Well Type:</b> HORIZONTAL OIL										
<b>Sales Person:</b> HALAMERICA\HB41307				<b>Srvc Supervisor:</b> Michael Loughran						
<b>Job</b>										
<b>Formation Name</b>										
<b>Formation Depth (MD)</b>		<b>Top</b>				<b>Bottom</b>				
<b>Form Type</b>				<b>BHST</b>						
<b>Job depth MD</b>		1813 ft		<b>Job Depth TVD</b>						
<b>Water Depth</b>				<b>Wk Ht Above Floor</b>						
<b>Perforation Depth (MD)</b>		<b>From</b>		<b>To</b>						
<b>Well Data</b>										
<b>Description</b>	<b>New / Used</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>
Casing		9.625	8.921	36	LTC	J-55	0	1799		1791
Open Hole Section			13.5				0	1813		
<b>Tools and Accessories</b>										
<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	<b>Depth ft</b>		<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	
Guide Shoe	9.625					Top Plug	9.625	1		
Float Shoe	9.625			1799		Bottom Plug	9.625			
Float Collar	9.625			1754		SSR plug set	9.625			
Insert Float	9.625					Plug Container	9.625	1	HES	
Stage Tool	9.625					Centralizers	9.625			
<b>Fluid Data</b>										
<b>Stage/Plug #: 1</b>										
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft<sup>3</sup>/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>	
1	Mud Flush III (Powder)	Mud Flush III	40	bbl	8.4			4	1680	
<b>Fluid Data</b>										
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft<sup>3</sup>/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>	
2	SwiftCem	SBM SWIFTCM CEMENT SYSTEM CEM	370	sack	12.5	2.16	12.28	9	4544	

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	SwiftCem	SBM SWIFTCEM CEMENT SYSTEM CEM	255	sack	13.5	1.32	6.94	9	1770
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	Fresh Water	136	bbl	8.3			10	5712
<b>Comment</b> 326bbbls 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	9/1/2022	11:00:00					CALLOUT 1100 HRS ON 9/1/2022. REQUESTED ON LOCATION 1800 HRS 9/1/2022
2	Pre-Convoy Safety Meeting	9/1/2022	16:00:00					DISCUSS ROUTE AND JSA SAFE DRIVING
3	Crew Leave Yard	9/1/2022	16:30:00					CREW LEAVES YARD
4	Arrive At Loc	9/1/2022	17:30:00					MEET WITH CUSTOMER, SET DEPTH 1799', TD 1813', 9.625" J-55 CASING 1803", F/C 1754', 13.5" HOLE, TVD 1731', WBM 8.9 PPG, WATER TEST 70 DEGREES, PH 7, CHLORIDES LESS 200 PPM, MAX PRESSURE 1000PSI
5	Pre-Rig Up Safety Meeting	9/1/2022	17:35:00					JSA SAFE RIG UP
6	Rig-Up Equipment	9/1/2022	17:45:00					RIG-UP ALL HES EQUIPMENT AND IRON TO BUFFER ZONE
7	Pre-Job Safety Meeting	9/1/2022	19:15:00	2.16	0.00	8.24	0.00	DISCUSS JOB PROCEDURE. DISCUSS HAZARDS OF JOB AND HES EQUIPMENT. RIG CIRCULATES 480 GPM/200 PSI. 30 MINUTES
8	Start Job	9/1/2022	19:29:49	0.67	0.00	8.23	0.00	BEGIN RECORDING DATA
9	Test Lines	9/1/2022	19:32:24	13.15	0.00	8.06	3.06	TEST HES LINES 3000 PSI
10	Pump Spacer 1	9/1/2022	19:34:55	1.66	0.00	8.08	0.00	40 BBLS FRESH WATER W/160 LBS MUD FLUSH
11	Pump Lead Cement	9/1/2022	19:53:39	120.19	3.51	8.27	0.06	370 SACKS SWIFTCEM LEAD CEMENT. 135.74 BBLS. 12.5 PPG, 2.16 YIELD, 12.28 GAL/SACK. TOLC=0'

12	Pump Tail Cement	9/1/2022	20:10:09	646.22	8.99	12.68	0.07	255 SACKS SWIFTCEM TAIL CEMENT. 59.95 BBLS. 13.5 PPG, 1.32 YIELD, 6.94 GAL/SACK. TOTC=1157' PRE-JOB CALCULATIONS
13	Shutdown	9/1/2022	20:20:12	75.37	0.00	15.85	77.09	SHUTDOWN
14	Drop Top Plug	9/1/2022	20:21:43	-1.49	0.00	14.00	77.09	HES TOP PLUG VERIFIED BY ZACK.
15	Pump Displacement	9/1/2022	20:21:47	-1.31	0.00	13.97	0.00	135.6 BBLS FRESH WATER DISPLACEMENT.
16	Bump Plug	9/1/2022	20:43:03	941.05	0.00	8.35	134.97	FCP 520 PSI/4 BPM, BUMP PRESSURE 1050 PSI. 45 BBLS. CEMENT TO SURFACE
17	Check Floats	9/1/2022	20:45:00	1096.75	0.00	8.36	134.97	FLOATS HOLD-.5 BBLS BACK
18	Pressure Up Well	9/1/2022	20:47:09	832.92	0.84	8.41	135.55	PRESSURE UP WELL/CASING TEST 30 MINUTES 1600 PSI. PRESSURE INCREASES TO 1655 PSI OVER 30 MIN
19	Check Floats	9/1/2022	21:18:41	1660.49	0.00	8.53	135.86	FLOATS HOLD, .5 BBLS BACK
20	End Job	9/1/2022	21:19:54	8.22	0.00	8.39	0.00	STOP RECORDING DATA
21	Pre-Rig Down Safety Meeting	9/1/2022	21:30:00					JSA SAFE RIG-DOWN
22	Rig-Down Equipment	9/1/2022	21:35:00					RIG-DOWN ALL HES EQUIPMENT
23	Rig-Down Completed	9/1/2022	22:35:00					RIG DOWN COMPLETED
24	Crew Leave Location	9/1/2022	23:00:00					CREW LEAVES LOCATION



3.0 Attachments

3.1 Real Time iCem Job Chart

