

Confluence DJ LLC.
Desha 4-10-2L
Intervals 1-49
Niobrara Formation

Weld County, CO
API: 05-123-47338
Prepared for: Confluence Resources
October 7, 2018

Stimulation Treatment
Post Job Report

FIGHTR EC-1

Prepared By:
Taylor/Matthews/Abroumand/Harrison/Vidmar
Bryce Peterson
Badger Crew

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Engineering Executive Summary

On September 22, 2018 a stimulation treatment was performed in the Niobrara formation on the Desha 4-10-2L well in Weld County, CO. The Desha 4-10-2L was a 50 stage Horizontal Plug and Perf Design. The proposed treatment consisted of:

25,500 gallons of 15% HCl
15,627,260 gallons of FR Water

2,111,478 pounds of Common White - 100 Mesh
11,414,268 pounds of Premium White - 40/70

The actual treatment fully completed 46 of 50 stages. 0 stages were skipped, and 3 stages screened out or were otherwise cut short of design. The actual treatment consisted of:

25,000 gallons of 15% HCl
16,001,855 gallons of FR Water

2,605,035 pounds of Common White - 100 Mesh
13,732,170 pounds of Premium White - 40/70

A more detailed description of the actual treatment can be found in the attached reports. The following comments were provided to summarize events and changes to the proposed treatment:

Halliburton is strongly committed to quality control on location. Before and after each job all chemicals, proppants, and fluid volumes are measured to assure the highest level of quality control. Tank fluid analysis is performed before each job in order to optimize the performance of the treatment fluids.

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.

Thank you,

John Matthews
Senior Technical Professional
Halliburton Energy Services

Wyatt Vidmar
Associate Technical Professional
Halliburton Energy Services

Landon Harrison
Technical Professional
Halliburton Energy Services

Alex Abroumand
Associate Technical Professional
Halliburton Energy Services

Confluence DJ LLC.

Desha 4-10-2L

Intervals 50-59

Niobrara Formation

Weld County, CO

API: 05-123-47338

Prepared for: Adebambo Alli

Stimulation Treatment
Post Job Report

FIGHTR EC-1

Prepared By:

Taylor/Matthews/Vidmar/Abroumand/Harrison

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Engineering Executive Summary

On October 05, 2018 a stimulation treatment was performed in the Niobrara formation on the Desha 4-10-2L well in Weld County, CO. The Desha 4-10-2L was a 11 stage Horizontal Plug and Perf Design. The proposed treatment consisted of:

5,000 gallons of 15% HCl
3,143,142 gallons of FR Water
459,995 pounds of Common White - 100 Mesh
2,349,054 pounds of Premium White - 40/70

The actual treatment fully completed 10 of 11 stages. 0 stages were skipped, and 0 stages screened out or were otherwise cut short of design. The actual treatment consisted of:

4,979 gallons of 15% HCl
3,188,628 gallons of FR Water
486,798 pounds of Common White - 100 Mesh
2,485,700 pounds of Premium White - 40/70

A more detailed description of the actual treatment can be found in the attached reports. The following comments were provided to summarize events and changes to the proposed treatment:

Halliburton is strongly committed to quality control on location. Before and after each job all chemicals, proppants, and fluid volumes are measured to assure the highest level of quality control. Tank fluid analysis is performed before each job in order to optimize the performance of the treatment fluids.

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.

Thank you,

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Alex Abroumand
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Desha 4-10-2L Perforation Summary

Stage	Plug Depth (ft-MD)	Top Perf (ft-MD)	Bottom Perf (ft-MD)	Perf Density (spf)	Total Perfs
1	16,901	16,901	16,903	n/a- toe sleeve	
2	16,891	16,741	16,883	variable, 3-6 spf	30
3	16,731	16,600	16,724	variable, 3-6 spf	30
4	16,591	16,460	16,584	variable, 3-6 spf	30
5	16,451	16,320	16,444	variable, 3-6 spf	30
6	16,311	16,161	16,303	variable, 3-6 spf	30
7	16,151	15,996	16,143	variable, 3-6 spf	30
8	15,986	15,831	15,978	variable, 3-6 spf	30
9	15,821	15,671	15,813	variable, 3-6 spf	30
10	15,661	15,511	15,653	variable, 3-6 spf	30
11	15,501	15,351	15,493	variable, 3-6 spf	30
12	15,341	15,191	15,333	variable, 3-6 spf	30
13	15,181	15,031	15,173	variable, 3-6 spf	30
14	15,021	14,871	15,013	variable, 3-6 spf	30
15	14,861	14,702	14,852	variable, 3-6 spf	30
16	14,691	14,532	14,682	variable, 3-6 spf	30
17	14,521	14,362	14,512	variable, 3-6 spf	30
18	14,351	14,201	14,343	variable, 3-6 spf	30
19	14,191	14,050	14,184	variable, 3-6 spf	30
20	14,041	13,900	14,034	variable, 3-6 spf	30
21	13,891	13,750	13,884	variable, 3-6 spf	30
22	13,741	13,591	13,733	variable, 3-6 spf	30
23	13,581	13,431	13,573	variable, 3-6 spf	30
24	13,421	13,290	13,414	variable, 3-6 spf	30
25	13,281	13,150	13,274	variable, 3-6 spf	30
26	13,141	12,972	13,132	variable, 3-6 spf	30
27	12,961	12,792	12,952	variable, 3-6 spf	30
28	12,781	12,631	12,773	variable, 3-6 spf	30
29	12,621	12,471	12,613	variable, 3-6 spf	30
30	12,461	12,311	12,453	variable, 3-6 spf	30
31	12,301	12,151	12,293	variable, 3-6 spf	30
32	12,141	11,991	12,133	variable, 3-6 spf	30
33	11,981	11,850	11,974	variable, 3-6 spf	30
34	11,841	11,700	11,834	variable, 3-6 spf	30
35	11,691	11,532	11,682	variable, 3-6 spf	30
36	11,521	11,371	11,513	variable, 3-6 spf	30
37	11,361	11,211	11,353	variable, 3-6 spf	30
38	11,201	11,051	11,193	variable, 3-6 spf	30
39	11,041	10,891	11,033	variable, 3-6 spf	30
40	10,881	10,731	10,873	variable, 3-6 spf	30
41	10,721	10,571	10,713	variable, 3-6 spf	30

Stage	Plug Depth (ft-MD)	Top Perf (ft-MD)	Bottom Perf (ft-MD)	Perf Density (spf)	Total Perfs
42	10,561	10,420	10,554	variable, 3-6 spf	30
43	10,411	10,270	10,404	variable, 3-6 spf	30
44	10,261	10,120	10,254	variable, 3-6 spf	30
45	10,111	9,970	10,104	variable, 3-6 spf	30
46	9,961	9,811	9,953	variable, 3-6 spf	30
47	9,801	9,651	9,793	variable, 3-6 spf	30
48	9,641	9,472	9,632	variable, 3-6 spf	30
49	9,461	9,292	9,452	variable, 3-6 spf	30
50	9,281	9,131	9,273	variable, 3-6 spf	30
51	9,121	8,971	9,113	variable, 3-6 spf	30
52	8,961	8,792	8,952	variable, 3-6 spf	30
53	8,781	8,617	8,772	variable, 3-6 spf	30
54	8,606	8,442	8,597	variable, 3-6 spf	30
55	8,431	8,272	8,422	variable, 3-6 spf	30
56	8,261	8,111	8,253	variable, 3-6 spf	30
57	8,101	7,951	8,093	variable, 3-6 spf	30
58	7,941	7,791	7,933	variable, 3-6 spf	30
59	7,781	7,637	7,773	variable, 3-6 spf	30

1,740