



WELL STIMULATION REPORT

Confluence

Willow 22-14-2L

05-123-50943-00

March 18, 2022

Engineering Executive Summary

On Friday, December 03, 2021 the stimulation of treatment(s) was performed in the Niobrara formation on the Willow 22-14-2L well in WELD county, COLORADO.

The proposed treatment(s) consisted of:

30,500	gallons of	15% HCl
0	gallons of	7.5% HCl
307,980	gallons of	FR Water
16,159,710	gallons of	FR Water EC-17
122,000	gallons of	Treated Water
2,562,000	pounds of	100 Mesh Premium White
12,768,152.34	pounds of	30/50 Premium White
0	pounds of	40/70 Premium White

The actual treatment(s) consisted of:

42,427	gallons of	15% HCl
0	gallons of	7.5% HCl
1,333,248	gallons of	FR Water
17,020,247	gallons of	FR Water EC-17
113,545	gallons of	Treated Water
2,515,900	pounds of	100 Mesh Premium White
12,660,890	pounds of	30/50 Premium White
170,940	pounds of	40/70 Premium White

61 of 61 treatment(s) were fully completed. 0 treatment(s) were skipped, and 0 treatment(s) were screened out or otherwise cut short of design.

The well was first opened Friday, December 03, 2021 at 01:42 with an opening pressure of 1,359.0 psi.

The total amount of proppant pumped was 15,347,730.0 lbm with an average concentration of 0.91 ppg and maximum concentration of 2.0 ppg. Treating pressure averaged 6823.59 psi and rate averaged 75.43 bpm.

The operation came offline at 06:26 and the well was shut in Thursday, December 23, 2021 at 06:33 with a final shut-in pressure of 4,039.66 psi. A more detailed description of the actual treatment can be found further down in this report.

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.

Regards,

CHRIS VARGAS

CHAD LEWIS

Crew Service Leader

Crew Lead Engineer

Willow 22-14-2L Plug and Perf Depths

Stage	Plug Depth	Top Perf ft -MD	Bottom Perf ft -MD	Total Perfs	Formation
1	19887	19698	19877	39	Niobrara B
2	19688	19499	19678	39	Niobrara B
3	19490	19499	19678	39	Niobrara B
4	19290	19121	19278	39	Niobrara B
5	19091	18902	19081	39	Niobrara B
6	18892	18703	18880	39	Niobrara B
7	18693	18504	18683	39	Niobrara B
8	18494	18305	18484	39	Niobrara B
9	18295	18106	19146	39	Niobrara B
10	18096	17904	18086	39	Niobrara B
11	17894	17702	17884	39	Niobrara B
12	17692	17500	17682	39	Niobrara B
13	17490	17298	17480	39	Niobrara B
14	17288	17096	17278	39	Niobrara B
15	17086	16894	17076	39	Niobrara B
16	16884	16692	16874	39	Niobrara B
17	16682	16490	16672	39	Niobrara B
18	16480	16288	16470	39	Niobrara B
19	16278	16086	16268	39	Niobrara B
20	16072	15884	16062	39	Niobrara B
21	15874	15684	15864	39	Niobrara B
22	15672	15480	15662	39	Niobrara B
23	15470	15279	15460	39	Niobrara B
24	15269	15078	15259	39	Niobrara B
25	15068	14878	15058	39	Niobrara B
26	14868	14677	14858	39	Niobrara B
27	14667	14476	14654	39	Niobrara B
28	14466	14275	14456	39	Niobrara B
29	14265	14074	14255	39	Niobrara B
30	14064	13874	14054	39	Niobrara B
31	13864	13673	13854	39	Niobrara B
32	13663	13472	13653	39	Niobrara B
33	13462	13271	13452	39	Niobrara B
34	13261	13070	13251	39	Niobrara B
35	13027	12890	13050	39	Niobrara B
36	12860	12669	12850	39	Niobrara B
37	12659	12468	12649	39	Niobrara B
38	12458	12267	12448	39	Niobrara B
39	12260	12066	12247	39	Niobrara B
40	12056	11866	12046	39	Niobrara B
41	11856	11665	11846	39	Niobrara B
42	11655	11464	11645	39	Niobrara B
43	11454	11263	11444	39	Niobrara B
44	11253	11060	11243	39	Niobrara B
45	11052	10862	11042	39	Niobrara B
46	10852	10661	10842	39	Niobrara B
47	10651	10460	10641	39	Niobrara B
48	10450	10259	10440	39	Niobrara B
49	10249	10058	10239	39	Niobrara B
50	10048	9858	10038	39	Niobrara B
51	9849	9657	9839	39	Niobrara B
52	9647	9456	9637	39	Niobrara B
53	9446	9255	9436	39	Niobrara B
54	9245	9054	9235	39	Niobrara B
55	9044	8854	9034	39	Niobrara B
56	8844	8653	8834	39	Niobrara B
57	8643	8452	8633	39	Niobrara B
58	8442	8251	8432	39	Niobrara B
59	8241	8050	8231	39	Niobrara B
60	8040	7850	8030	39	Niobrara B