WELL STIMULATION REPORT

Confluence

Willow 22-15-3L

05-123-50945-00

March 18, 2022

HALLIBURTON | Production Enhancement

Engineering Executive Summary

On Friday, December 03, 2021 the stimulation of treatment(s) was performed in the Niobrara formation on the Willow 22-15-3L well in WELD county, COLORADO.

The proposed treatment(s) consisted of:			The actual treatment(s) consisted of:		
30,500	gallons of	15% HCl	70,852	gallons of	15% HCl
0	gallons of	7.5% HCl	0	gallons of	7.5% HCl
0	gallons of	FR Water	1,434,048	gallons of	FR Water
15,245,915	gallons of	FR Water (FightR EC-17)	16,980,263	gallons of	FR Water (FightR EC-17)
122,000	gallons of	Treated Water	167,062	gallons of	Treated Water
2,562,000	pounds of	100 Mesh Premium White	2,543,280	pounds of	100 Mesh Premium White
12,767,986.57	pounds of	30/50 Premium White	12,602,471	pounds of	30/50 Premium White

57 of 61 treatment(s) were fully completed. 0 treatment(s) were skipped, and 4 treatment(s) were screened out or otherwise cut short of design.

The well was first opened Thursday, December 02, 2021 at 23:53 with an opening pressure of 1,575.0 psi.

The total amount of proppant pumped was 15,145,751.0 lbm with an average concentration of 0.89 ppg and maximum concentration of 2.0 ppg. Treating pressure averaged 6984.64 psi and rate averaged 72.95 bpm.

The operation came offline at 04:34 and the well was shut in Thursday, December 23, 2021 at 04:35 with a final shut-in pressure of 4,503.9 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 22-15-3L Plug and Perf Depths

Stage	Plug Depth	Top Perf ft -MD	Bottom Perf ft-MD	Total Perfs	Formation
1	19949	19758	19939	20	Niobrara C
2	19758	19557	19738	20	Niobrara C
3	19547	19357	19537	20	Niobrara C
4	19347	19154	19334	20	Niobrara C
5	19146	18955	19136	20	Niobrara C
6	18945	18754	18935	20	Niobrara C
7	18744	18553	18734	20	Niobrara C
8	18543	18352	18533	20	Niobrara C
9	18342	18151	18332	20	Niobrara C
10	18144	17947	18131	20	Niobrara C
11	17937	17743	17927	20	Niobrara C
12	17733	17539	17723	20	Niobrara C
13	17529	17335	17519	20	Niobrara C
14	17325	13715	17295	20	Niobrara C
15	17131	16925	17111	20	Niobrara C
16	16917	15764	16907	20	Niobrara C
17	16713	16519	16703	20	Niobrara C
18	16509	16315	16499	20	Niobrara C
19	16302	16111	16290	20	Niobrara C
20	16101	15910	16091	20	Niobrara C
21	15897	15703	15887	20	Niobrara C
22	15693	15499	15683	20	Niobrara C
23	15489	15295	15479	20	Niobrara C
24	15288	15091	15275	20	Niobrara C
25	15076	14890	15066	20	Niobrara C
26	14880	14689	14870	20	Niobrara C
27	14679	14488	14669	20	Niobrara C
28	14478	14290	14469	20	Niobrara C
29	14284	14092	14271	20	Niobrara C
30	14082	13894	14073	20	Niobrara C
31	13884	13696	13874	20	Niobrara C
32	13686	13498	13677	20	Niobrara C
33	13488	13300	13478	20	Niobrara C
34	13290	13102	13281	20	Niobrara C
35	13092	12906	13083	20	Niobrara C
36	12894	12706	12885	20	Niobrara C
37	12696	12508	12687	20	Niobrara C
38	12498	12310	12489	20	Niobrara C
39	12298	12112	12289	20	Niobrara C
40	12102	11914	12093	20	Niobrara C
41	11904	11716	11895	20	Niobrara C
42	11706	11518	11697	20	Niobrara C
43	11508	11322	11499	20	Niobrara C
44	11310	11120	11300	20	Niobrara C
45	11110	10919	11099	20	Niobrara C
46	10909	10718	10899	20	Niobrara C
47	10708	10517	10698	20	Niobrara C
48	10507	10316	10497	20	Niobrara C
49	10306	10115	10296	20	Niobrara C
50	10105	9914	10095	20	Niobrara C
51	9904	9713	9894	20	Niobrara C
52	9703	9512	9690	20	Niobrara C
53	9502	9311	9492	20	Niobrara C
54	9301	9111	9291	20	Niobrara C
55	9100	8910	9090	20	Niobrara C
56	8896	8709	8886	20	Niobrara C
57	8699	8508	8689	20	Niobrara C
58	8494	8302	8484	20	Niobrara C
59	8297	8126	8287	20	Niobrara C
60	8096	7905	8086	20	Niobrara C
61	7895	7707	7885	20	Niobrara C