CASE STUDY

From Barely a Barrel to a Boom: HotSoss Stimulates Production at Bakken Well After Traditional Treatment Failures

CHALLENGES

Paraffin blockages caused a significant production decline in this North Dakota Bakken formation oil well—making it uneconomical to operate. Traditional chemical treatments and hot oiling failed to solve the problem. The well owner, facing diminishing returns on investment, sought an innovative solution to stimulate production and revitalize the well.

SOLUTIONS

HotSoss emerged as the breakthrough solution, thanks to its unique approach to tackle paraffin, iron sulfide, and asphaltene deposits. The treatment plan included a single hot oil truck to:

- Mix a 5% HotSoss in 70 barrels of produced water
- Heat the HotSoss solution and divide for direct well injection and flowline cleaning
- Complete treatment in a single day for immediate impact

RESULTS

28x Increase in Oil Production

Production jumped from <1 bbl/day to an average of 28 bbl/day in the two-months following HotSoss treatment.

60x Increase in Natural Gas Production

In the 7 months before treatment, a total of 49 MCF of Natural Gas was produced. In the 2 1/2 months after treatment, 1072 MCF of Natural Gas was produced.

30x Increase in Runtime

Prior to treatment well only run 1-2 days per month due to paraffin blockages. Post-treatment, well runs every day.

AT A GLANCE

An 11-year old well in North Dakota suffered a significant decline in production due to paraffin buildup. This well struggled to operate, barely producing more than a single bbl/day. After a single HotSoss well treatment, production jumped to an average of 28 bbl/day and 13.5 MCF of natural gas.

KEY METRICS

28X INCREASE
IN OIL PRODUCTION

60X INCREASE
IN NATURAL GAS PRODUCTION

30X INCREASE
IN WELL RUN-TIME

CASE STUDY

GUARDIAN CHEMICALS INC.

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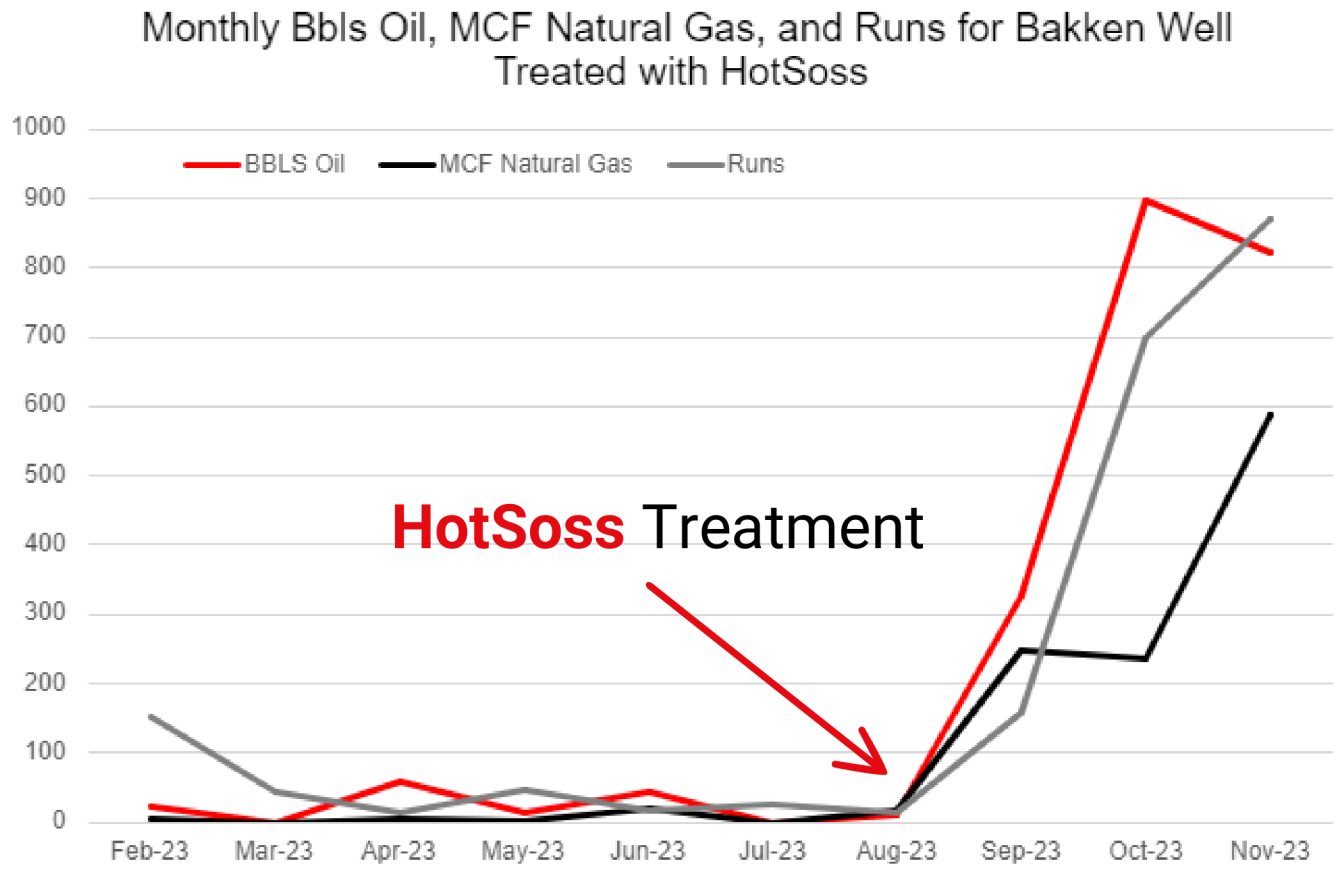
WELL PRODUCTION DATA



RAW DATA

Production Test Data
IP Test Date: **10/6/2012** Pool: **BAKKEN** IP Oil: **1073** IP MCF: **524** IP Water: **4176**
Monthly Production Data

Pool	Date	Days	BBLS Oil	Runs	BBLS Water	MCF Prod
BAKKEN	11-2023	30	823	870	456	588
BAKKEN	10-2023	31	896	699	256	236
BAKKEN	9-2023	21	327	159	211	248
BAKKEN	8-2023	1	12	13	10	16
BAKKEN	7-2023	0	0	26	0	0
BAKKEN	6-2023	2	44	17	17	20
BAKKEN	5-2023	1	13	48	10	3
BAKKEN	4-2023	1	58	13	34	4
BAKKEN	3-2023	0	0	43	0	0
BAKKEN	2-2023	1	22	151	9	6