

Eagle Ford Frac Hit Mitigations Wells 1-3

Eagle Ford Formation, Texas

Treatment Details:

- The 3 wells were designed as frac hit protection treatments.
- The wells were injected with 120 barrels of nanoActiv® as smaller-volume pills throughout the initial pre-load.
- The treatments soaked for approximately 2½ weeks during the infill well work to allow the nanoparticles to diffuse throughout the reservoir and alter the wettability of the formation to create more favorable fluid-flow conditions.

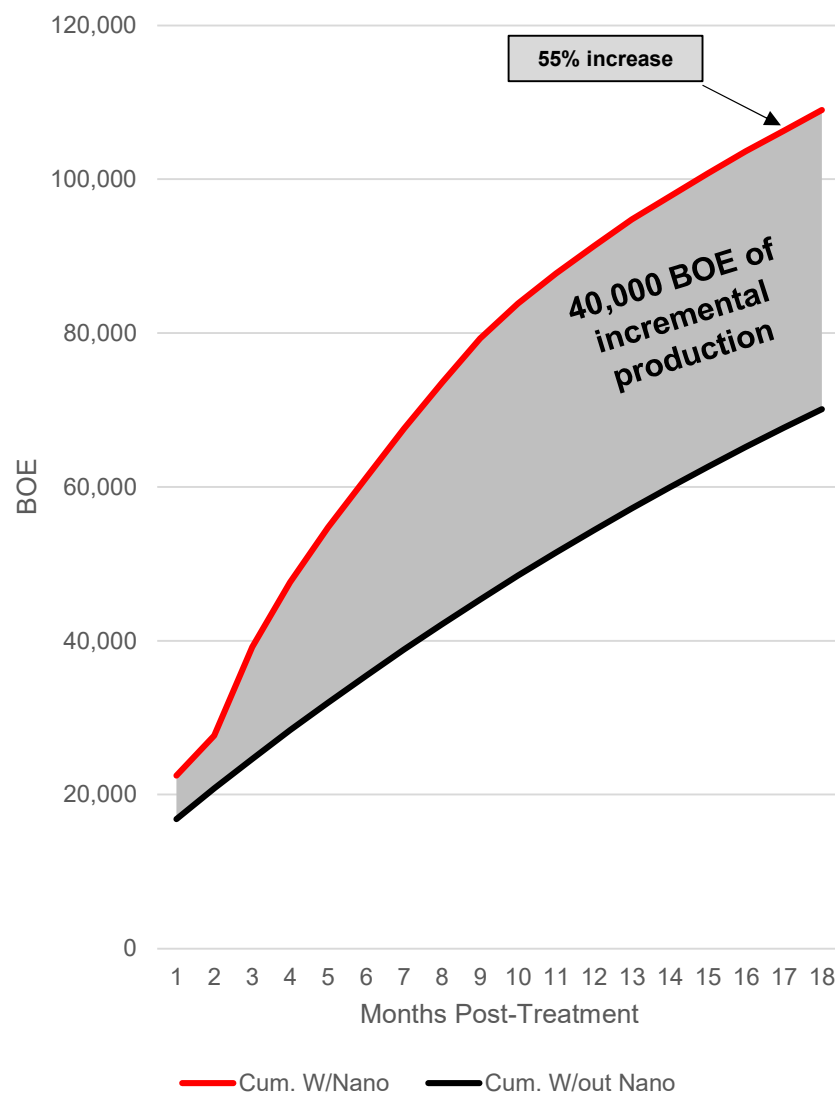
Results:

- Prior to using nanoActiv®, the operator of the three Eagle Ford case studies stated, on average, well production was returning to only 65% Bopd. However, after the nanoActiv® treatments, the producer has seen the wells surpass previous production rates.

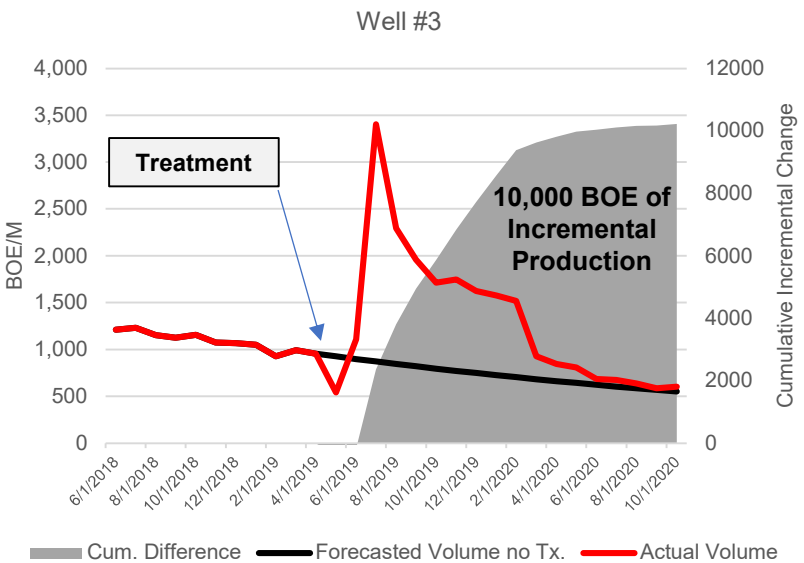
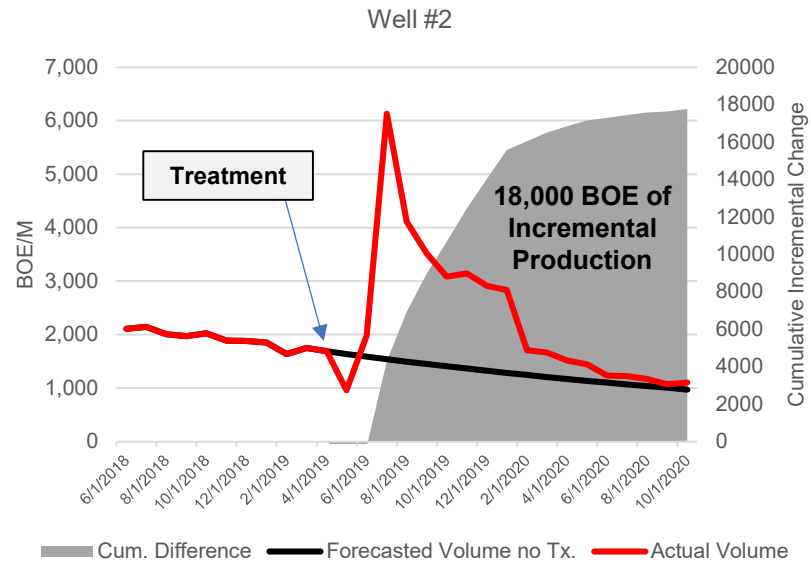
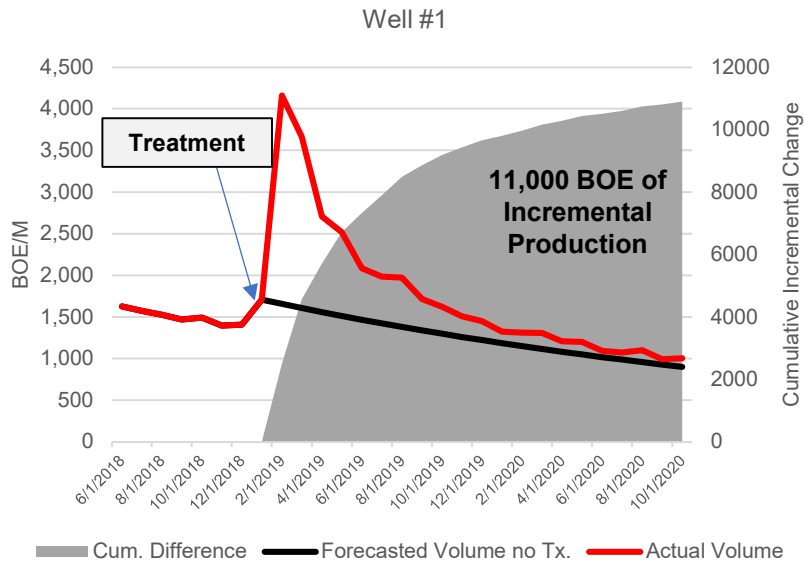
Production History: Pre & Post Treatment

	Well #1	Well #2	Well #3
90 Day Avg. Pre-Tx.	1,500 BOE	1,700 BOE	950 BOE
90 Day Avg. Post-Tx.	3,500 BOE	4,000 BOE	2,300 BOE
Current Production	1,000 BOE	1,100 BOE	600 BOE
Days Since Tx.	630	510	510

Post-Treatment Analysis
Actual vs Forecasted Production



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GOR Ratios - Composite Barrel

