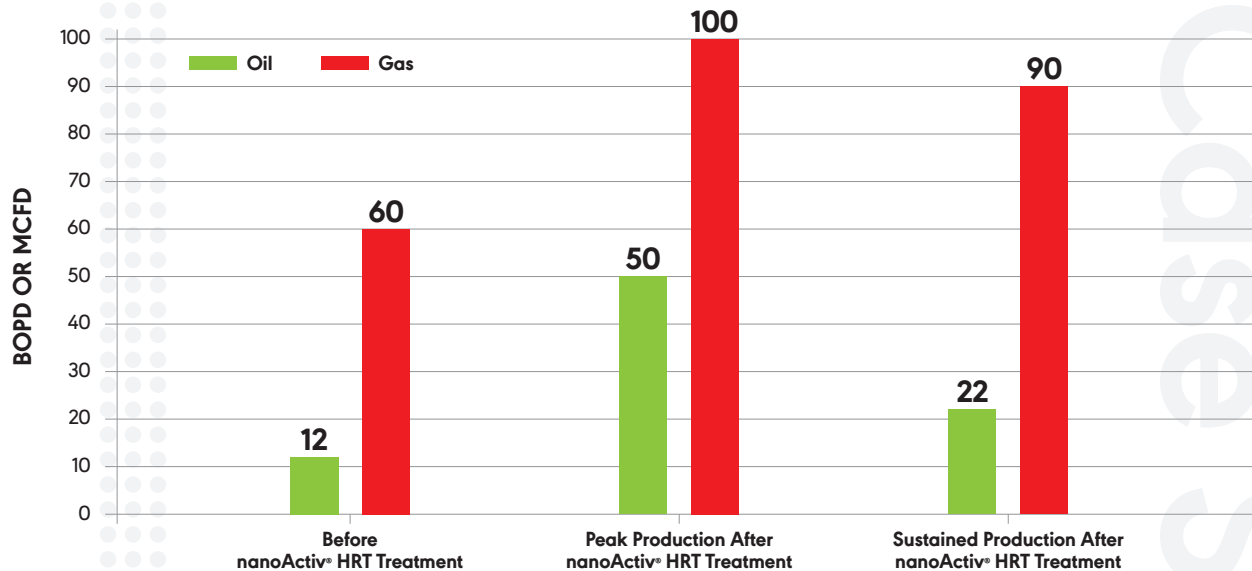


Unfrac'd Well · Wolfcamp Formation nanoActiv® HRT Treatment

✓ Well continues to maintain higher production after six months



Details

- Unfrac'd Wolfcamp reservoir—nanoActiv® HRT dispersed directly into the reservoir, disjoining/freeing up oil and gas

Treatment

- Treated with 1,500 gallons of nanoActiv® HRT—paid for in less than 60 days by increased production
- Production before treatment: 12 BOPD and 60 MCFD

Results

- Peak production after treatment: 50 BOPD and 100 MCFD
- Sustained production after treatment: 22 BOPD and 90 MCFD
- This well continues to maintain higher production after six months
- The operator is currently evaluating other candidates for nanoActiv® HRT



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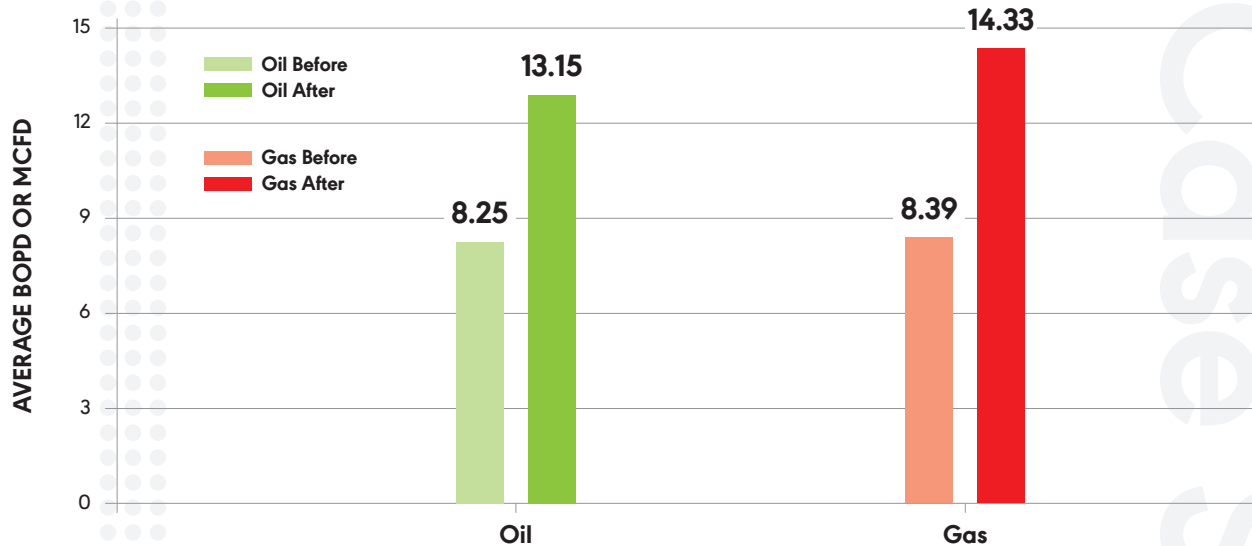
713.532.4745
nanoactiv@nissanchem-usa.com



Nissan Chemical
America Corporation

10-Well No-Rig Annular Treatments Midland Basin · nanoActiv® HRT

✓ Wells continue to maintain higher production after 90 days



Details

- 10 Vertical Wells in Howard, Dawson, and Ector Counties in Midland Basin
- Formations: Santa Rosa, Mississippian, Clearfork

Treatment

- Average Treatment was 900 gallons of nanoActiv® HRT; jobs paid for themselves in less than 30 days by increased production
- Average Production Before Treatment: 8.25 BOPD and 8.39 MCFD

Results

- Average Sustained Production After Treatment: 13.15 BOPD and 14.33 MCFD
- The wells continue to maintain higher production after 90 days
- Operators are continually evaluating other candidates for nanoActiv® HRT treatment



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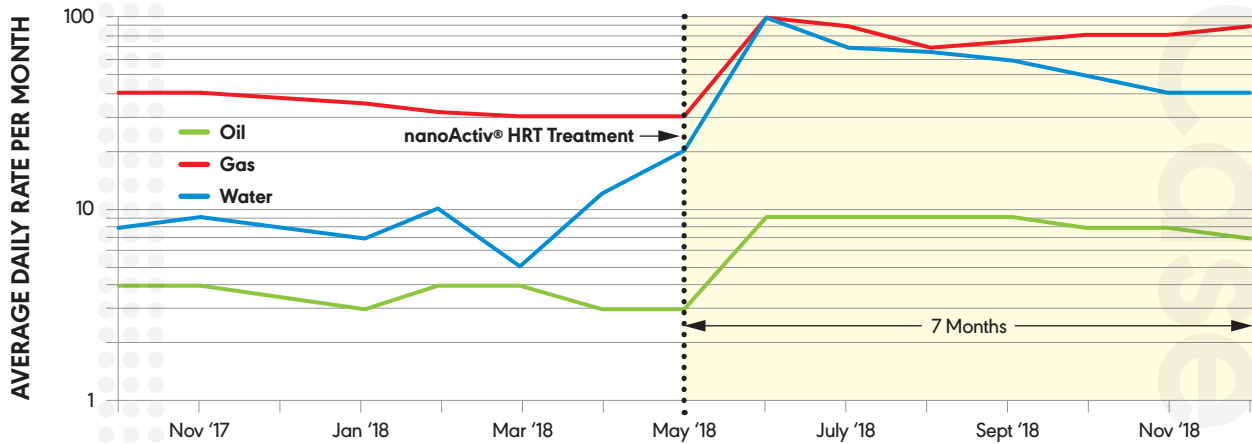
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America Corporation

61-Year-Old Unfrac'd Well • Permian Basin nanoActiv® HRT Treatment

✓ Net additional production over seven months is more than 1,550 BOE (20:1)



Details

- Permian Basin: drilled in 1959, completed into the Wolfcamp in 2006
- Well Type: vertical/unfrac'd

Treatment

- Treated with 1,500 gallons of nanoActiv® HRT in May 2018

Results

- Oil production stabilized around 9 BBLD for the first 5 months after treatment and around 8 BBLD after seven months.
- Gas has fluctuated between 80-90 MCFD on average post-treatment.
- Water production continuing to decline after initial spike.

Daily oil production has sustained more than double BOPD for seven months post-treatment and counting.

	Avg BOPD	Avg MCFD	Avg BWD
7 Months Pre-Treatment	4	33	11
3 Months Pre-Treatment	3	30	12
3 Months Post-Treatment	9	87	78
7 Months Post-Treatment	8	84	61



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