## Ceramic proppant outperforms sand completed wells in Bakken, Dunn County

Production and ROI from 15 wells engineered with a ceramic proppant completion outperformed comparable sand completed wells. Additionally, the optimized design reduced environmental and operational impact.





Note: Cost and prices for 2017 based on Well Operating Cost of \$10,000 per month, Discount Factor of 10%, Oil Rate of \$50.00 bbl, Gas Rate of \$2.00 MCF and Water Disposal Cost of \$3.00 bbl

Proppant Type (No of Wells)	TVD (ft)	Lateral Length (ft)	Proppant Mass (lb)	Fluid Volume (gal)	Number of Stages	Fracturing Cost (\$M)
Ceramic + Sand (15)	10,799	8,676	3,801,151	3,395,959	26	\$2.78
White Sand (15)	10,906	8,618	4,015,335	4,129,623	31	\$2.57

Talk to CARBO to find out how we can help you to engineer an optimized completion to maximize your return from every well.



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