



DS Intensity™ Case Study

DynaEnergetics Optimizes Operations for Prominent Eagle Ford E&P Company, Resulting in Significant Economic Savings

EXECUTIVE SUMMARY

Why would you change your perforating system when operations are running well? That's a question one prominent E&P company asked when we approached them about trying something new.

At DynaEnergetics, we relentlessly pursue optimal performance to bring you the best value. And since all our perforating systems are built in-house and tailored to your application, we continuously seek to deliver better customer performance and greater operational value.

Switching to DynaEnergetics DS Intensity perforating system — without changing their perforating or frac plan — brought this E&P company results that surprised: Cost savings of over \$240,000 per 39-stage well (over \$6,000 per stage) and a time savings of almost 14 hours per well, allowing them to complete more wells in less time and begin production earlier.



THE CHALLENGE

Using a competitor's standard shaped charges, a prominent E&P company had been perforating wells in the Eagle Ford Shale geological area for many years without any challenges. So why would they make a change?

DynaEnergetics perforating products perform better because we develop purpose-built solutions for each application. We were confident that with a deep understanding of their perforating program, we could offer a solution that would increase efficiency and save significant time and money — without changing their perforating or frac plan. The E&P company was interested.

THE SOLUTION

After reviewing their program, we suggested the DynaEnergetics DS Intensity perforating system, equipped with DS LoneStar charges.

With little to no change in their standard operating procedure, the E&P company agreed to an experiment to replace its previous perforating system with a DynaEnergetics system tailored to their program. They trialed our system on a limited number of stages and wells so that they could compare performance between the two systems.

THE RESULTS

The DynaEnergetics DS Intensity system increased operational efficiency and resulted in significant cost and time savings. One senior completion engineer noted that with DynaEnergetics, they completed one well with more stages faster than wells with lower stage counts using a competitor's perforating system — resulting in “real dollars being saved.”

The E&P company saw the following operational efficiencies:

1. Greater treatment consistency across all stages
2. Lower treating pressures
3. Consistent earlier cluster initiation
4. Zero-acid initial breakdown

These operational efficiencies led to less horsepower, less fuel, less maintenance, higher pump rates, and faster frac time — which all added up to significant cost and time savings.

Time Savings: Almost 14 hours per 39-stage well

- 30 minutes per stage where acid was previously needed (average of 4 hours per well)
- 15 minutes average pump time per stage (almost 10 hours per well)

Cost Savings: Over \$240,000 per 39-stage well (\$6,000 per stage)

- Average pump time: \$3,750 per stage (at \$15K per HP hour)
- Time required for acid use: \$7,500 per stage requiring acid (at \$15K per HP hour)
- Cost of acid: \$4,500 per stage requiring acid (at \$3 per gallon x 1,500 gallons)
- Additional savings in diesel costs

THE BOTTOM LINE

With 39 stages per well and an average of 8 guns per stage that previously required acid, our high-performance solution is saving this E&P company almost 14 hours operational time and over \$240,000 per well.

After seeing those results, the company decided to switch to the DynaEnergetics DS Intensity perforating system with DS Lonestar charges for the remainder of their project scope.

How much could you save using a DynaEnergetics perforating system, purpose-built for your program?



There was a significant efficiency improvement with the DS Intensity gun with LoneStar charges vs. the previous perforating gun systems we were using.”

– E&P Senior Completion Engineer