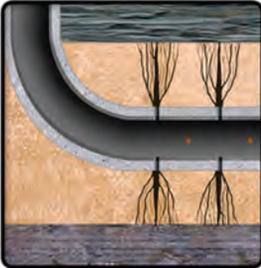




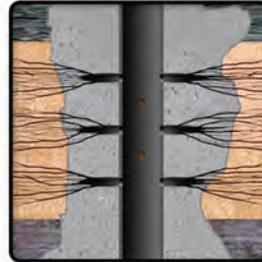
# Applications

## Horizontal



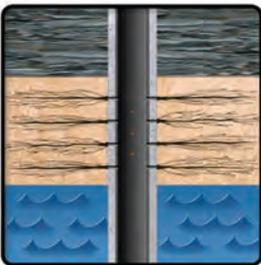
- Cost effectively stimulate long intervals
- Fractures created along the entire pay zone
- Minimal onsite equipment
- Environmentally friendly

## Nearbore Damage



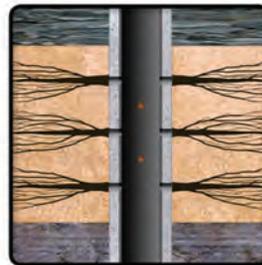
- Remove skin damage from perforators, drilling, scale, cement, etc.
- Fractures created at every perforation tunnel
- Improve effectiveness of acidizing

## Close Water Contact



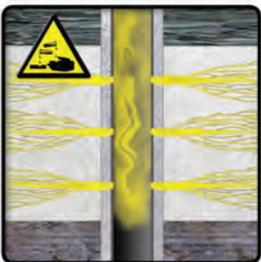
- Minimal vertical fracture growth
- Improve the effectiveness of spotting acid
- No need to set packers for isolation

## Pre Frac



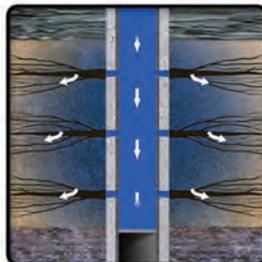
- Reduce tortuosity and resulting screen-outs
- Break down formation/ reduce treating pressures
- Create fractures in preferred plane

## Pre Acid



- Improve effectiveness of spotting acid
- Break down formation/ reduce treating pressures
- Etch channels in newly created fractures

## Injection



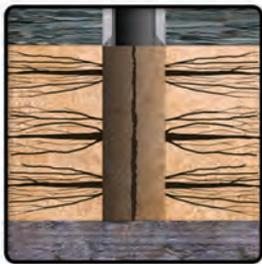
- Increase injection rates
- Reduce injection pressures
- Create homogeneous injection profile

## Naturally Fractured



- Significantly improve formation drainage
- Multiple fractures intersect natural fractures

## Open Hole



- Zone isolation achieved without packers
- No adverse effects to borehole integrity
- Fractures not dominated by earth stresses



**T**he GasGun® was originally conceived by scientists at Sandia National Laboratories in the late 1970's. Over the next few decades, research and development continued to advance the technology and explore its commercial applications. It is safe to say that we have the scientific process in our DNA. We at the GasGun continue to refine the technology today, recording and analyzing field results by communicating with all of our customers. Not only is this good science but a great opportunity to provide customer service.

Our extensive database of results, provided by discussions with valued customers, is the foundation for applying the GasGun successfully in real world conditions. It is only when we speak to thousands of customers who have used the GasGun that we generate a large enough data set to clearly understand which downhole conditions present the greatest opportunity for success. With this knowledge we developed this **GasGun Applications Page** to show operators the eight most common successful applications of this unique tool.

**Visit our website or contact us directly and our technical team will review your application today!**

