

# GATOR ACCORD

Repeatable Hydro Mechanical Multi-Use Perforating System



#### **Applications**

#### Water Injection Well Integrity:

- Perforate for cement squeeze for zonal isolation
- Sequentially perforate outer casing in preparation for cementing inner casing string.
- Ground water protection

#### Plug & Abandon:

- Low Cement Top, SCVF, Zonal Isolation
- Ground water protection

#### **Completions:**

Alternative to electric line and tubing conveyed perforating.

#### **Production:**

Re-perforating, adding perforations



#### **Example perforated 7.0" casing**



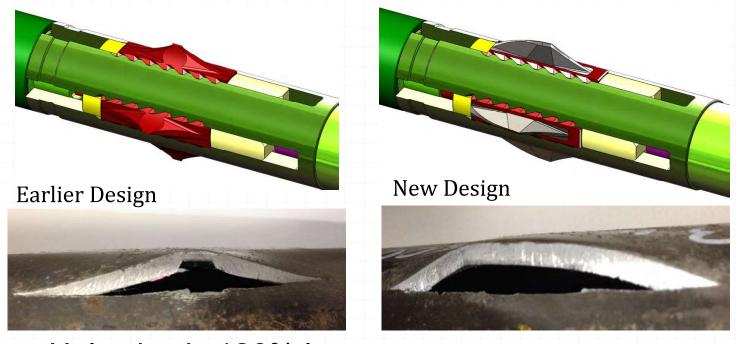
Casing maintains round even after very short cut spacing.

Cuts can be indexed in hole to give a spiral effect for improved fluid sweep.





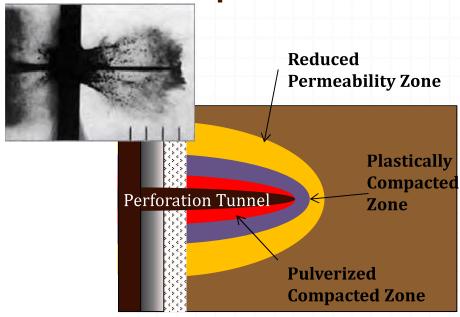
## Cutter Blocks Redesign



- Hole size is 126% larger.
- Force required to cut the casing is reduced by 19%

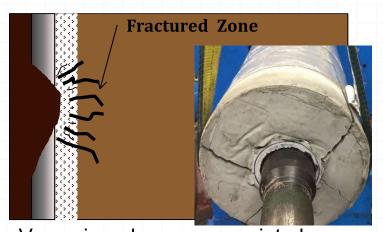
## Damage vs Non-Damage

#### **Explosive Perforation**



Large damage area associated with the explosive charge.

## Hydro-Mechanical Perforation



Very minor damage associated with the perforation.

Beneficial fractures in the cement / formations(?)



## **Application & Benefits**

- No explosives or explosion risk, great for highly populated or high traffic areas.
- Perforate vertical and horizontal wells for production.
- Perforate vertical and horizontal wells for cement squeeze.
- Perf and set bridge plug & squeeze cement on a single run.
- Sequentially Perforate, set Packer & confirm federate on each perf on a single run.
- Ideal for shallow perforating (close to surface).
- Ideal for perforating production casing with no damage surface casing.
- Replace large TCP operations with multiple cutting tools.
- Leaves ID of casing smooth not requiring scarper run.

