

Systems That Deliver Superior Injectivity

Saltwater disposal and waterflood injection rely on optimizing connectivity between well and formation to achieve higher injection rates while keeping surface pressures within acceptable limits and cost-per-barrel under control.

These scenarios demand systems that can deliver consistent, clean entry holes and a deep, clean connection with the formation.

SWM combines its industry-leading gun systems, Advanced Breakdown shaped charges, burr-free perforations, and Kraken® propellant technology to tailor the best possible solution for your well and rock conditions.

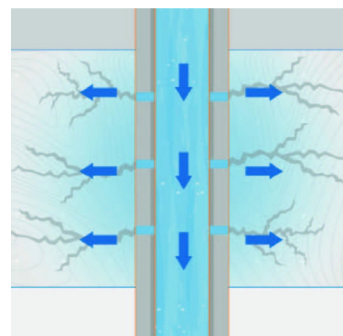
KRAKEN

Enhanced Energetics patented propellant-enhanced perforating technology:

- Breaks down all perforations for injection
- Improves injectivity index and profile
- Can replace or enhance acid treatments
- Increases injection rate & volume, lowering power consumption

“ Pressure transient analysis performed on a recent West Texas disposal well completed with a system optimized for injectivity measured a **pre-breakdown skin of -1.4**, which dropped to **-11.2** after breakdown...

Major Permian Basin Operator



Why leave your injection well performance to chance?

Specify a system that was created for superior performance.

SWM systems designed to deliver superior injectivity are available in 2¾", 3⅝", 4" and 4½" sizes (70, 79, 102, and 114mm).

Typical gun swell is 0.22" (5.6mm). Maximum shot density 4spf (13 spm).

Rated to 20,000 psi (138 MPa), 280°F (138°C) for 1 hour, 260°F (127°C) for 10 hours.

Contact your SWM representative to discuss specific configuration options for your application.