

## West Texas Operator Improves Production from San Andres Well with Kraken Perforation/Stimulation Technology

### APPLICATION

Reperforation/stimulation  
(Existing Zone)

### INTERVAL

4,770 - 4,850 feet

### FORMATION

San Andres (dolomite)

### LOCATION

Gaines, Texas

### POROSITY

15 %

### PERMEABILITY

4 md

### SKIN

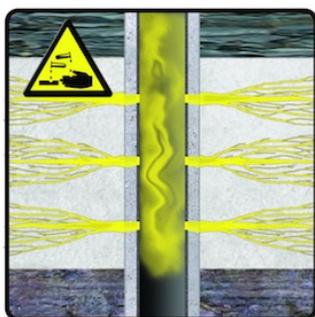
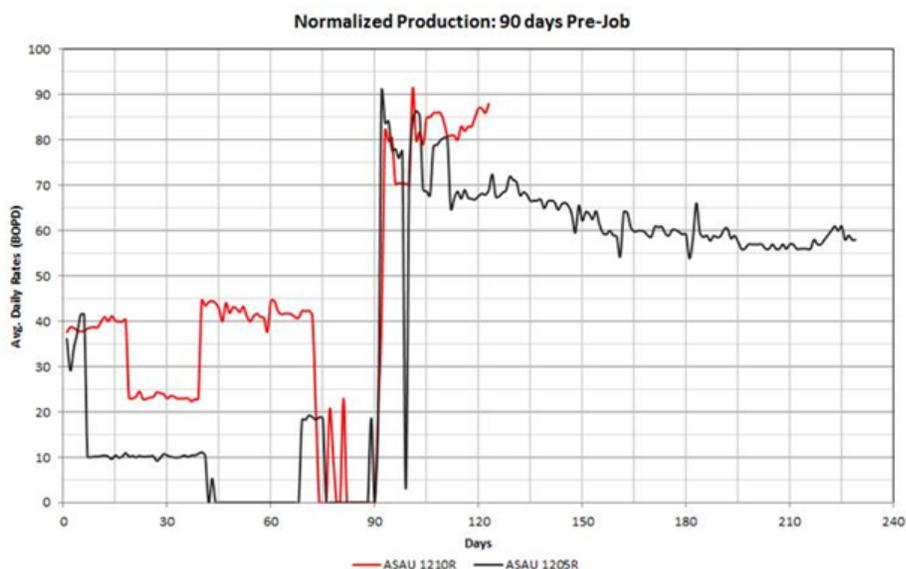
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### GUN DESIGN

3 1/8" Kraken Perf Gun

### BACKGROUND

Two cased hole wells initially completed with conventional perf and acid in the San Andres dolomite formation were recompleted with the Kraken and acid in order to improve existing production. The Kraken, a propellant-enhanced perforating gun, is designed to overcome formation damage and improve the performance of the subsequent acid stimulation. A 5000 gallon acid job was run after each Kraken perforating job. The 5000 gallons comprised of 15% HCL split 90% purely acid and 10% with acitol (xylene) for paraffin inhibition. Each acid job was diverted with ~3500 lbs. of rock salt. Both wells saw a consistent increase in production with this enhanced stimulation method. Before and after oil production for both wells is noted in the graph below.



### Pre-Acid

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