

# Abrasive Perforating

## Slim-Hole Abrasive Perforating After Toe Sleeve Failure



### HIGHLIGHTS

- Customized Design
- Innovative Tools
- Extensive Knowledge

### DETAILS

Location	South Texas
Formation	Eagle Ford
Well Orientation	Horizontal
Casing Size	5 1/2" 23#
Fluid	Water
Conveyance	1 1/2" Coiled Tubing
Operation Depth	13,339 Ft
Tools Used	1 1/2" Abrasive Perforating Assembly

### OBJECTIVE

A customer in the Eagle Ford had deployed a ball drop sliding sleeve system in one of their wells. The initiator toe sleeve on the system failed to open preventing them from being able to drop the first ball to begin their frac.

### RESULTS

Thru Tubing Solutions was consulted to design a "slick OD" abrasive perforator assembly that would be small enough to pass through the last sliding sleeve (1.70" ID) and perforate the first stage. Due to TTS' extensive knowledge with abrasive perforating, an assembly was designed and built quickly and easily. With innovative tools, TTS was able to incorporate the XRV™ Vibration Tool to assist in getting the 1-1/2" coiled tubing to depth. Perforations were successfully made in the first stage and proper injection rate was achieved to pump down the first ball.

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